harman/kardon

FESTIVAL 60/80

Component Audio System

TECHNICAL MANUAL

PRELIMINARY RELEASE

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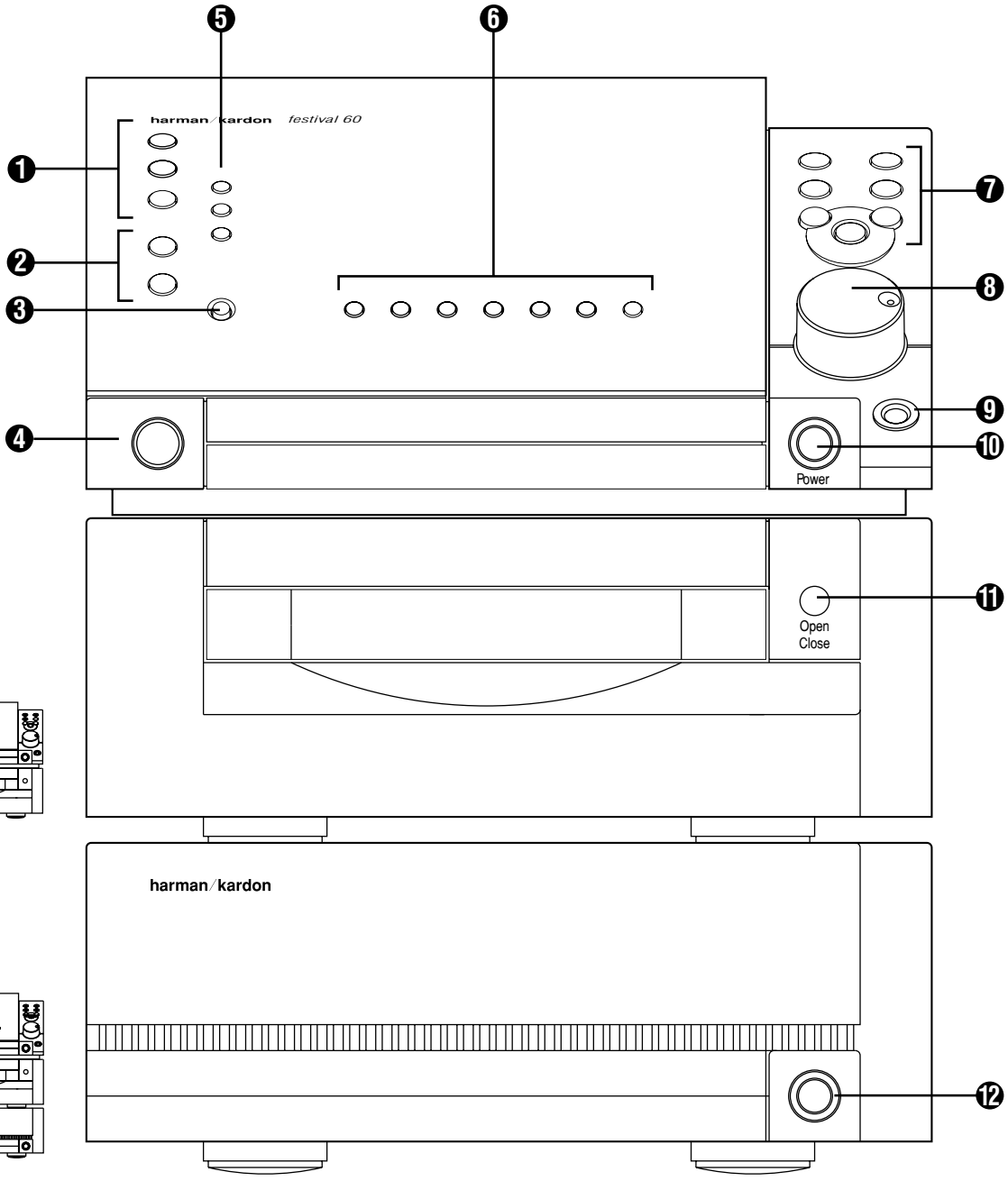
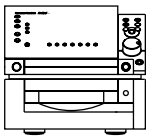
Festival 60/80 SPECIFICATIONS

	Festival 60	Festival 80
Power Amplifier		
Power Output: Stereo: 8 ohms (20 – 20kHz, <0.09%THD)	35 watts	35 watts
Surround: Left/Right/Center @8 ohms (20 – 20kHz, <0.09%THD)	N/A	35 watts
Surround: Rear Channels: 4 ohms (20 – 20kHz, <0.09%THD)	N/A	20 watts
High-Current Capability: Stereo & Main Channel Amps	+/–35 amps	+/–35 amps
Power Bandwidth @8 Ohms	10Hz – 60kHz	10Hz – 60kHz
Frequency Response (1W +0/–3dB)	0.2Hz – 140kHz	0.2Hz – 140kHz
Rise Time	0.8µSec	0.8µSec
Slew Rate	105V/µSec	105V/µSec
S/N Ratio (Reference, Rated Power, A-Wtd.)	112dB	112dB
Subwoofer Output	850mV	N/A
Subwoofer Amplifier Power @4 ohms (20 – 120Hz, <0.09%THD)	N/A	95 watts
Subwoofer Amplifier High-Current Capability	N/A	+/–60 amps
Dimensions (H x W x D)	4 x 10-1/4 x 11-3/16"/102 x 260 x 284mm	N/A
Weight	11.9lbs/5.4kg	N/A
FM Tuner		
Tuning Range (100kHz – step)	87.5MHz – 108MHz	87.5MHz – 108MHz
Usable Sensitivity, Stereo, A-Wtd. (S/N 30dB)	18dBf	18dBf
50dB Quieting Sensitive, Stereo, A-Wtd. (97.9MHz)	42dBf	42dBf
S/N Ratio 65dBf, Mono/Stereo, A-Wtd. (97.9MHz)	70dB/65dB	70dB/65dB
Capture Ratio	1.6dB	1.6dB
Selectivity, Adjacent Channel, +/–400kHz (97.9MHz)	55dB	55dB
IF Rejection (97.9MHz)	120dB	120dB
THD 1kHz, 65dBf	0.30%	0.30%
AM Tuner		
Tuning Range (10kHz – step)	530kHz – 1710kHz	530kHz – 1710kHz
Sensitivity (S/N 20dB) 600kHz/1000kHz, 1400kHz	900µV/m / 630µV/m	900µV/m / 630µV/m
Alternate Channel Selectivity (6dB S/N Sensitivity), +/–10kHz	45dB	45dB
Image Rejection (6dB S/N Sensitivity)	40dB	40dB
IF Rejection (6dB S/N Sensitivity)	60dB	60dB
7-Disc CD Changer		
System	Compact Disc Digital Audio	
D/A Converter	4X oversampling filter, 3D Bitstream™, Secondary delta sigma noise shaper	
Error Correction	CIRC System	CIRC System
Frequency Response	20Hz – 20kHz, +/–3dB	20Hz – 20kHz, +/–3dB
THD	0.03%	0.03%
Dynamic Range	90dB	90dB
S/N Ratio	82dB	82dB
Channel Separation	70dB	70dB
Dimensions (H x W x D)	4 x 10-1/4 x 11-3/16"/102 x 260 x 284mm	4 x 10-1/4 x 11-3/16"/102 x 260 x 284mm
Weight	7.1lbs/3.2kg	7.1lbs/3.2kg
Controller		
Input Sensitivity/Impedance	150mV/100kohm	150mV/100kohm
Frequency Response (1W +1/–3dB)	7Hz – 100kHz	7Hz – 100kHz
S/N Ratio (Reference, Rated Power, A-Wtd.)	100dB	100dB
Tone Control Range (+/–)Bass 50Hz/Treble 10kHz	+/–10dB	+/–10dB
Surround Modes	N/A	Pro Logic®, Movie, Music, Hall
Dimensions (H x W x D)	5-7/16 x 10-1/4 x 11-3/16"/138 x 260 x 284mm	5-7/16 x 10-1/4 x 11-3/16"/138 x 260 x 284mm
Weight	7.3lbs/3.3kg	7.3lbs/3.3kg
Subwoofer/Amplifier		
Driver	N/A	Dual 8"
Frequency Response +/–3dB	N/A	32Hz – 150Hz
Sensitivity 2.83VRMS @1m	N/A	87dB
Impedance	N/A	4 ohms nominal
Dimensions (H x W x D)	N/A	15-3/4 x 18 x 15-5/8"/400 x 457 x 397mm
Weight	N/A	56lbs/25.5kg
Speakers		
High-Frequency Driver	1" Flare-Dome Tweeter	1" Flare-Dome Tweeter
Midrange/Bass Driver	6" Co-polymer	3-1/2" Laminated Fiber
Crossover	4kHz	150Hz, 4kHz
Frequency Response +/–3dB	50Hz – 20kHz	150Hz – 20kHz
Sensitivity 2.83VRMS @1m	87dB	87dB
Impedance	8 ohms nominal	8 ohms nominal
Dimensions (H x W x D)	10-1/8 x 6-7/8 x 13-1/2"/257 x 175 x 343mm	3-3/4 x 4-1/8 x 6"/95 x 105 x 152mm
Weight	11lbs/5kg	0.5lbs/0.23kg

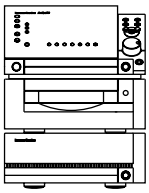
Festival 60/80 CONTROLS & FUNCTION



festival 80



festival 60



Product Over view Front

❶ **Source Buttons**
Press desired source button to select input source.

❷ **Sound Keys**
Press to access sound quality and tone control functions for all sources.

❸ **Clock**
Press to access the clock, sleep and wake functions.

❹ **Remote Control Receiver**
Point remote control at this area for optimum remote operation. (Remote range is 15 feet.)

❺ **Option Buttons**
These buttons change function based on the source being used. Press to select functions specific to each source. Some functions require more than one press for adjustment or selection.

❻ **Selection Buttons**
In the Tuner mode these buttons store or recall preset stations, in the CD mode they select discs, and in the Aux mode they select Aux inputs. In the Clock mode they adjust the time and the wake time setting.

❼ **Play Controls**
Press to select, adjust and operate functions specific to each source. Some functions require more than one press for adjustment or selection.

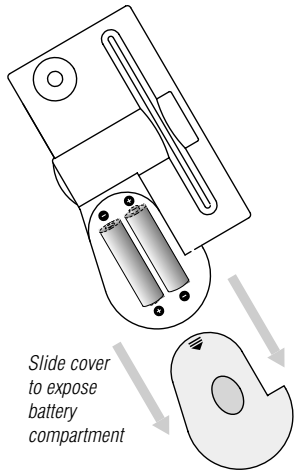
❽ **Volume Knob**
Rotate to adjust volume level.

❾ **Headphone Jack**
Accepts 1/8" headphone connector.

❿ **Power**
Press lightly to put the system into Standby (which saves all settings). Press firmly to turn unit completely Off. The power light is green when the system is On and orange when the system is in Standby.

⓫ **Open/Close**
Press to open and close the CD drawer.

⓬ **Power Indicator** *(Festival 60 only)*
This indicator is green when the system is On and orange when the system is in Standby.



Remote

Place batteries (included) in the remote as shown below. Most of the buttons and controls on the remote have functions identical to the buttons and controls on the control unit. The remote control requires two AA batteries. The range is 15 feet.

Power
Press to put the unit in Standby.

Sleep
Press to put the system into the Sleep mode. (See clock section on page 13 for more information).

Source Buttons
Press desired source button to select an input source.

Selection Buttons
Press to scroll through and select functions specific to each source.

Volume Controls
Press Volume to adjust sound level.

Press Mute to temporarily silence speaker output.

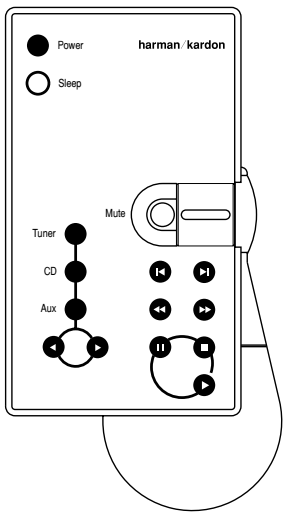
Play Controls
Press to select, adjust and operate functions specific to each source.

Festival 80 only

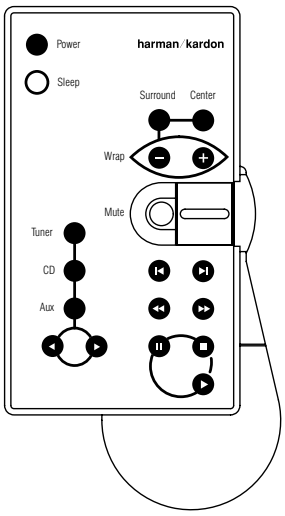
Surround
Press to access surround sound control functions.

Center
Press to access center speaker control functions.

Wrap
Press to adjust surround sound effects.



festival 60 remote



festival 80 remote

Connections

Electronics

❶ Connect the Ribbon Wire
Push the plugs on the ribbon wire Ⓐ firmly into corresponding connectors on the Controller until they "click" into place. Slip the wire edges beneath cable management clips.

❷ Connect the Antenna
FM
Connect the included antenna or an external FM antenna to the FM (75 ohm) connector. The included 300 ohm to 75 ohm adapter is required for connections from twin lead or inside dipole antennas.

AM
Assemble the included AM Loop Antenna and connect it to the AM and GND connectors. If an external AM antenna is used, follow the instructions supplied with the antenna.

❸ Connect the Power Cord
Plug the female end of the power cord Ⓔ (provided) into the AC power jack on the rear of the unit. Do not plug the male end into an AC outlet until all other connections have been made. In addition to the power connection to the controller, Festival 60 has a power connection to the Amplifier and Festival 80 has a power connection to the Powered Subwoofer.

Speakers

Festival 80

❹ Position the Speakers
Festival 80 includes five 2-way satellite speakers and one powered subwoofer. The satellite speakers all connect to the subwoofer. The subwoofer connects directly to the controller.

❺ Connect the Speakers
The five speakers each have a pair of spring-loaded wire clips. The subwoofer has five pairs of corresponding connectors. Run a length of the provided wire from each speaker to the subwoofer. Cut the wire and strip the two leads at each end. Attach the leads at the speaker to the red and black clips. To ensure proper polarity, attach the leads at the subwoofer to the corresponding colored spring clips. Repeat for all four remaining speakers.

❻ Connect the Subwoofer
Connect the round multi-pin connector of the subwoofer cable Ⓒ to the subwoofer jack on the Controller. Connect the other end to the jack on the back of the subwoofer as shown.

Festival 60

❼ Position the Speakers
Festival 60 includes two 2-way "bookshelf" speakers that can be placed almost anywhere in a room and still provide superior sound quality. Both speakers connect directly to the controller.

❽ Connect the Speakers
Both speakers have a pair of screw-type wire connectors. The amplifier has two pairs of similar connectors. Run a length of the provided wire from each speaker to the amplifier. Cut the wire and strip the two leads at each end. Unscrew the knobs on the back of the speaker to reveal a hole in each post. Insert one lead in the red post hole and the other in the black, then tighten. To ensure proper polarity, attach the leads at the amplifier to the two corresponding colored connectors.

❾ Connect the Subwoofer (optional)
If you are adding an optional powered subwoofer to this system, connect the subwoofer to the jacks on the back of the amplifier.

Optional Connections

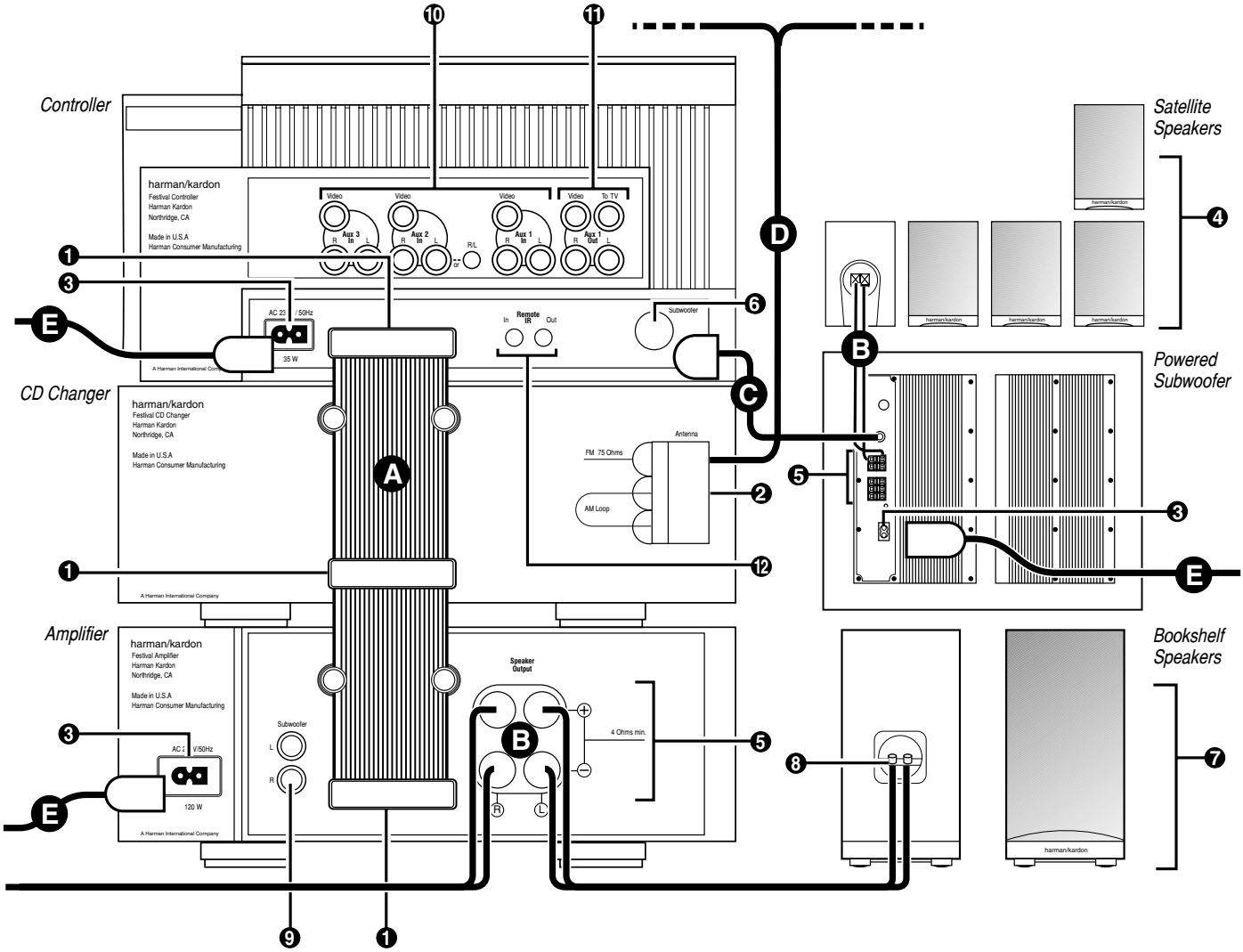
❿ Aux 1, 2 & 3 Inputs
Connect the audio and video outputs of up to three external sources (DVD, VCR, cassette, etc.) to these jacks. Connect computers and portable audio products to the R/L jack linked to Aux 2. If the R/L jack is used, the Aux 2 input is disabled.

⓫ Aux 1 Output
Connect these jacks to the audio and video inputs of a VCR or cassette deck to record Festival's output. Connect the "To TV" output jack to the video input of your TV, projector or video monitor to view the video source selected by Festival.

⓬ Remote IR Extension
If the Festival's front panel remote control receiver is blocked, connect an external IR (InfraRed) sensor to this jack and place sensor in an unobstructed area.

Connectors

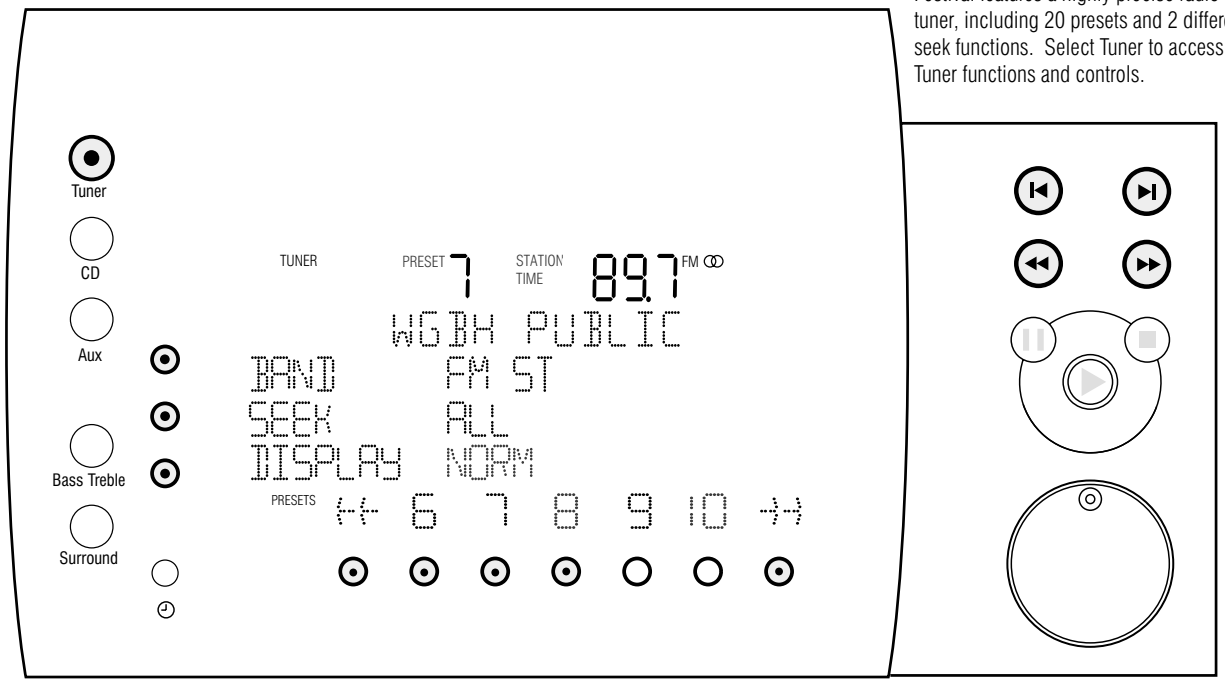
- **A** Ribbon wire
- **B** Speaker wire
- **C** Subwoofer cable *(Festival80 only)*
- **D** Antenna
- **E** Power cord



FESTIVAL 60/80 CONTROLS TUNER

Tuner

Festival features a highly precise radio tuner, including 20 presets and 2 different seek functions. Select Tuner to access all Tuner functions and controls.



Option Buttons

Selecting the frequency band

⊙ BAND

Press repeatedly for desired frequency band, AM or FM.

- FM ST Tunes all FM stations.
- FM MO Tunes all FM stations and plays them in mono.
- AM Tunes all AM stations.

Selecting the Seek mode

⊙ SEEK

Press repeatedly for desired Seek mode. (See Seek under Play Controls on opposite page.)

- ALL Seeks all active stations in selected band.
- RDS Seeks only selected RDS type (FM only). See RDS on page 9 for more information.

Displaying RDS messages *(FM only)*

⊙ DISPLAY

Press repeatedly for desired RDS display mode.

- NORM Displays station identification and RDS program type in message bar.
- TEXT Displays additional RDS information in message bar.

Selector Buttons

In Tuner mode, the Selector Buttons become station "presets." They instantly store or recall stations, including the band and mono/stereo mode selections.

Storing Presets

Tune to the station you want to store, then press and hold the unlit numbered button until PRESET DONE appears in the display. The selected button will light, indicating a stored preset. The system stores up to 20 presets.

Storing a preset in a lit button automatically overrides the previously stored preset.

Recalling Presets

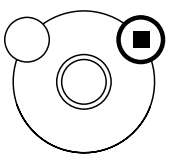
Press a lit numbered button.

Press ⊣⊣ or ⊢⊢ to access more available presets.

To clear all Presets

Turn the system completely off by firmly pressing the Power switch on the Control Unit so that no lights are illuminated. Then turn the system back on and immediately press the Stop button ⊙ in the Play controls (see below). The message bar in the Tuner screen should now read PRESET CLEARED.

Note: Depending upon the previous mode selected, the Stop button may not be illuminated.



Play Controls

Seek

◀◀ Seek ▶▶

Press to skip back or forward to the next station depending on SEEK mode selected. (See SEEK in the Options section on this page)

Normal Mode

Seek will search for all stations.

RDS Mode

Seek will search for selected RDS type stations. (See RDS explanation on the following page).

Tune

◀◀ Tune ▶▶

The SEEK mode, selected with the Options button affects the operation of the Tune buttons. You cannot tune in Seek RDS. If you want to tune, select Seek ALL.

Tuning Stations

When the Seek mode ALL is, press and release the Tune buttons to tune one frequency step at a time.

Press and hold Tune buttons for a quick scroll through all frequencies.

Selecting RDS type for Seek (FM only)

When the Seek mode RDS is, the Tune buttons become Select buttons. Press and release them to scroll through and select RDS types.

Press and hold Select buttons for a quick scroll through RDS types.

RDS
Festival displays text messages, including station identification and program type, from FM stations broadcasting RDS (Radio Data System) information.

When available, additional information may be displayed by selecting TEXT with the DISPLAY button.

Seek RDS
Seeks only stations of the selected RDS type. However, only stations broadcasting RDS information will be tuned.

Seeking for specific RDS signals
Select RDS with the SEEK Option Button.

Press ◀Select▶ repeatedly to select RDS type (displayed in message bar).

Press ◀Seek▶ to automatically find the next station of the selected RDS type.

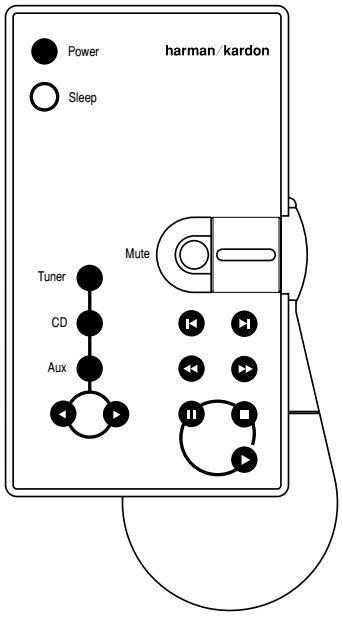
Remote

Tuner functions
Many of the buttons and functions of the remote mimic the buttons and functions of the control unit in Tuner mode.

The Play Control buttons on the remote function identically to Play Controls on the control unit.

Selecting Presets using the remote
Press and release the Select buttons ◀▶ to choose programmed presets one at a time.

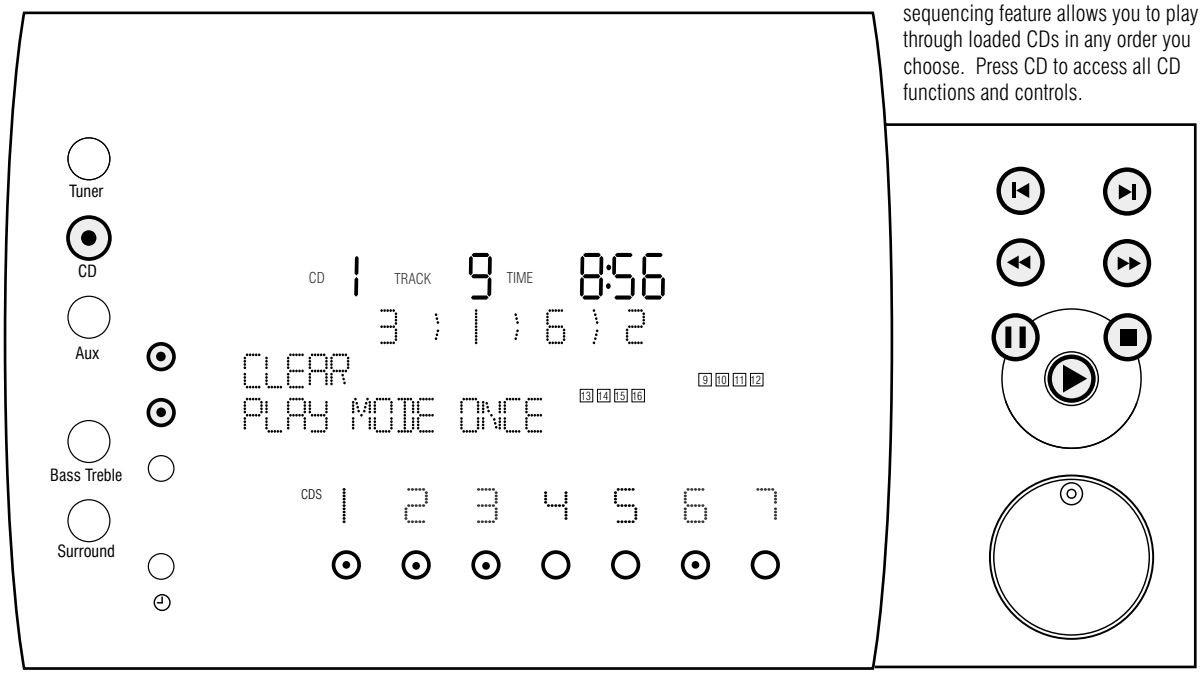
Press and hold Select buttons ◀▶ for a fast scroll through programmed presets.



festival 60 remote

CD Changer

Festival features a programmable 7-disc CD Changer that accepts both standard-sized CD's and one 3-inch CD. Festival's sequencing feature allows you to play through loaded CDs in any order you choose. Press CD to access all CD functions and controls.



Option Buttons

Clearing a CD sequence

⊙ CLEAR

Press to erase the current sequence. Then select a new sequence or push Play ⊙ to build and play a sequence of loaded disks. (The sequence is shown in the message area of the display)

Selecting the play mode

⊙ PLAY MODE

Press repeatedly to select play option.

ONCE Plays all sequenced CDs once.

REPEAT Plays all sequenced CDs, then repeats sequence.

RANDOM Randomly plays all songs from selected CDs.

Selector Buttons

In CD mode, the Selector Buttons allow you to load, select and sequence CDs.

To load CDs into empty "slots"

Press any unlit CD button (unlit = empty "slot"). The CD drawer will open automatically.

Place a CD in the CD drawer.

Note: Place 3-inch discs in slot 1 only. Placing 3-inch discs in any other slot will damage Festival and the disc.

Press OPEN/CLOSE or the button beneath the blinking disc number to close drawer.

Selecting a single CD to play

Press a lit CD button (lit = loaded CD).

Press ⊙ to play CD.

Creating a sequence

Press CLEAR to erase previous sequence.

Press lit CD buttons in the order that you wish to listen.

Press ⊙ to start playing sequence.

To eject a specific CD

Press lit button of CD you wish to unload.

Press OPEN/CLOSE to eject CD.

Remove CD.

Press OPEN/CLOSE to close drawer.

Play Controls

Skip

⊙ ⊙

Press to skip back to the previous track or forward to the next track on the disk.

Press and release to skip one track at a time.

Press and hold to scroll quickly through the tracks.

Search

⊙ ⊙

Press to audibly search back or forward through a track.

Press and release to search a few seconds at a time.

Press and hold for a continuous audible search through a track.

Pause

⊙

Press to pause current CD at the point of play. Press ⊙ to resume play from point of pause.

Stop

⊙

Press to stop play of current CD.

Play

⊙

Press to begin play of selected CD or sequence.

Note: It may take a few moments for Festival to load CD before play begins.

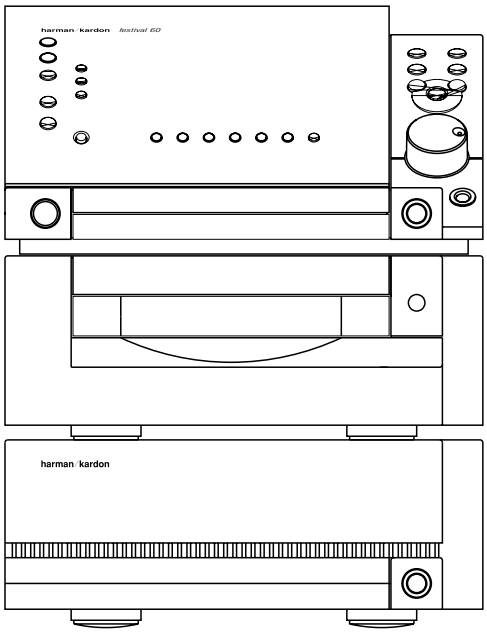
Open/Close

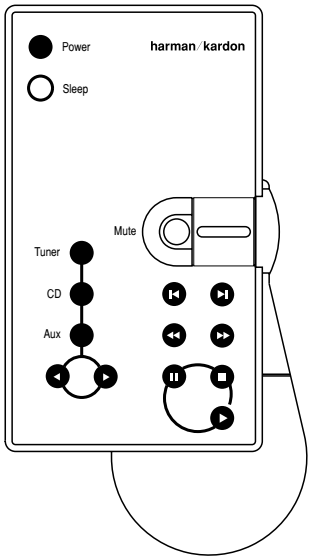
Press to open or close CD drawer. The CD drawer can also be closed by gently pushing the drawer toward Festival.

Festival will eject the currently selected CD, which is displayed in the upper left corner of Display.

When closing, the CD drawer may appear to "stutter" or hesitate. This action actually ensures proper alignment of the discs and is part of Festival's normal operation.

Note: Place 3-inch discs in slot 1 only. Placing 3-inch discs in any other slot will damage Festival and the disc.





festival 60 remote

Remote CD Functions
Many of the buttons and functions of the remote mimic the buttons and functions of the control unit in CD mode.

Play Control buttons function identically to Play Controls on the control unit.

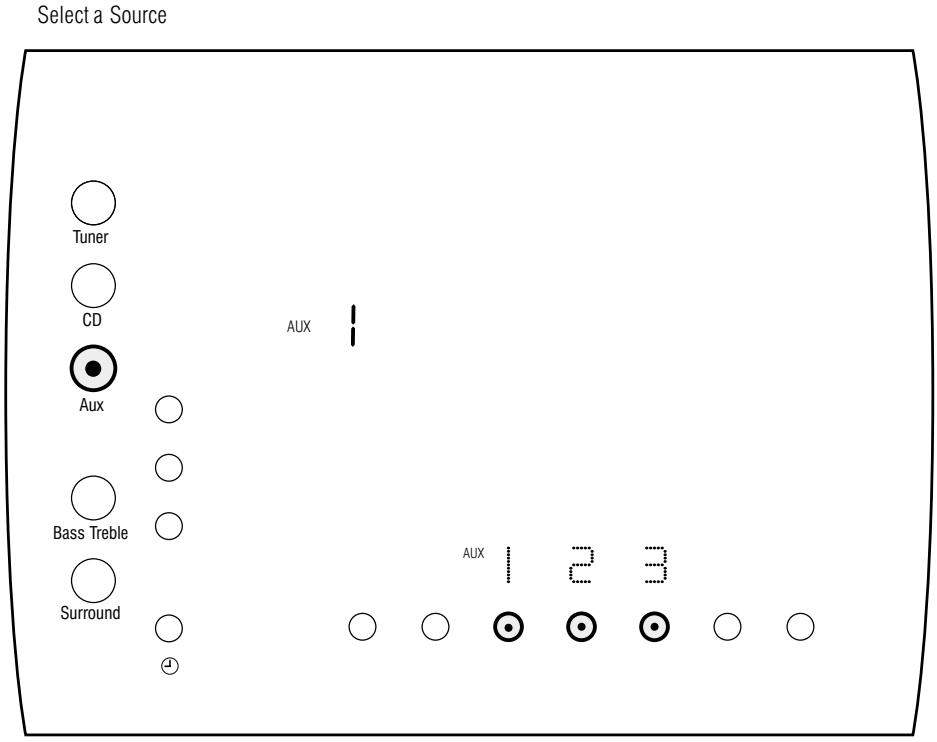
Selecting CDs using the remote
Press and release the Select buttons to choose previous or next CD in sequence.

Press and hold the Select buttons for a fast scroll through CDs in sequence.

FESTIVAL 60/80 CONTROLS AUX

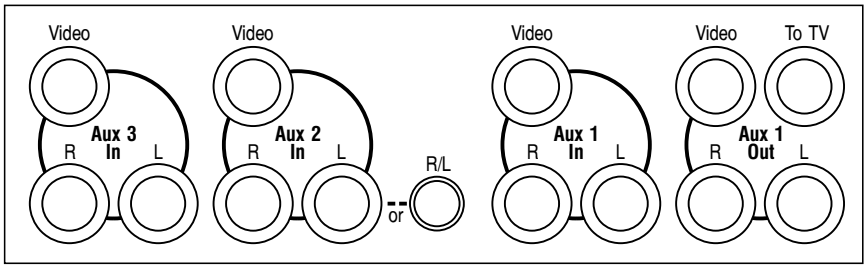
Aux

Festival allows you to connect up to 3 external audio/video sources (DVD, VCR, cassette deck, etc.). Two of the sources (Aux 2 and Aux 3) can be recorded when they are in use. When video sources are connected, Festival also functions as a video switcher. For both audio and video, Festival does not control the external sources, but provides the ability to choose between them. Press Aux to select an external source.



Selector Buttons

Aux 1, 2 & 3
Press to select an auxiliary input.



Aux Inputs & Outputs

Aux 1, 2 & 3 In

R in L
Connect these jacks to the audio PLAY/OUT jacks of an external audio source.

Video
Connect this jack to the composite video PLAY/OUT jack of your VCR.

R/L (Aux 2 Only)
Note: The small 3.5 mm (1/8") stereo jack (R/L, above) may be used for computers or portable audio products. When this jack is used, it automatically overrides the product connected to the main Aux 2 audio inputs.

Use this jack when the external audio is delivered through a single cable or an adapter that combines separate stereo cables in one plug. With this jack, the source may be stereo or mono, but the plug must be a 3.5 mm (1/8") stereo mini-plug.

Aux 1 Out

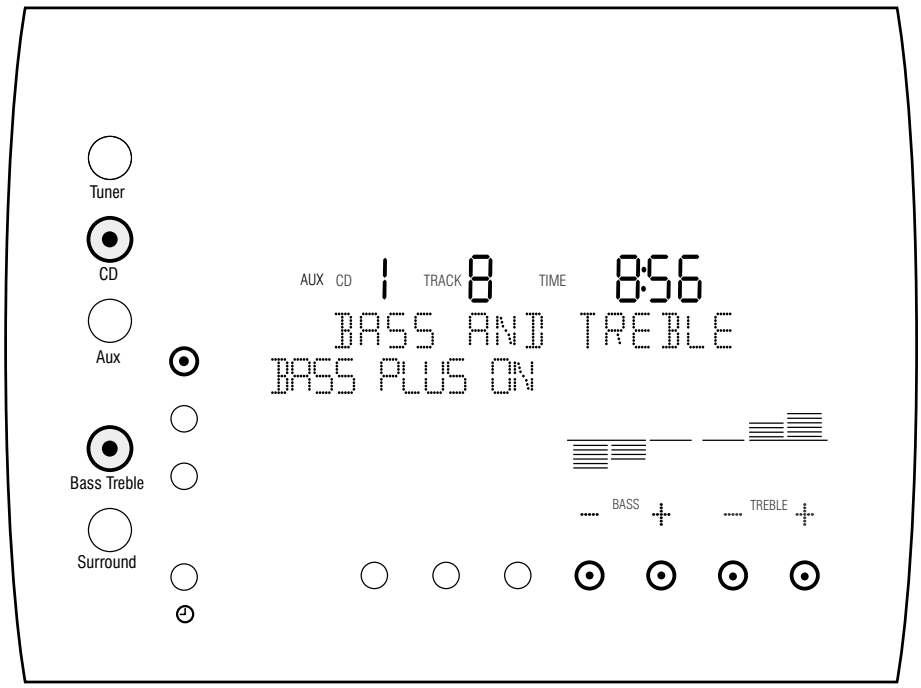
R Out L
Connect these jacks to the RECORD/IN jacks of an external recorder (cassette recorder, VCR, etc.).

Video
Connect this jack to the composite video RECORD/IN jack of your VCR.

To TV
Connect this jack to the composite VIDEO/IN jack of your TV.

FESTIVAL 60/80 BALANCE, BASS & TREBLE

Customizing the Sound



Bass Treble

Festival allows you to manipulate the quality and tone of the sound to match your individual preferences. The bass and treble controls affect the entire system, not just the current music source.

Press the Bass Treble button to access sound equalization functions and controls.

Option Buttons

Increasing the bass output

⦿ BASS PLUS

Bass Plus "Boosts" the amount of bass, regardless of the current bass/treble setting. The effect is most noticeable at low volumes. Press to turn Bass Plus feature on or off.

ON More bass.

OFF Less bass.

Selector Buttons

Adjusting the Bass

Press + to increase or press — to decrease the amount of Bass.

Adjusting the Treble

Press + to increase or press — to decrease the amount of Treble.

Balance

Festival 60 Only

Press the Balance button to access speaker output controls.

Balance allows you to "Move" the sound right or left until the volume level appears to sound the same from each speaker.

Selector Buttons

To move the sound to the left

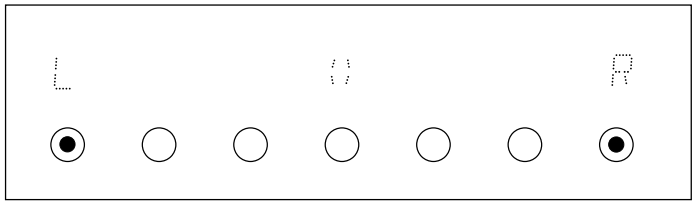
Press the L button repeatedly until the desired effect is achieved.

To move the sound to the right

Press the R button repeatedly until the desired effect is achieved.

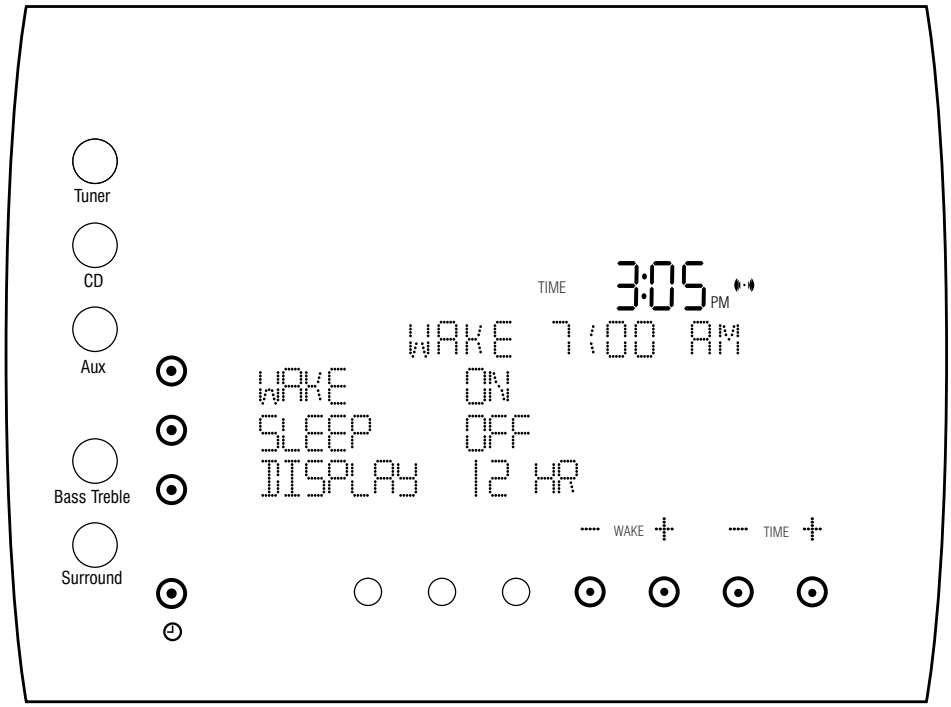
To return the sound to the center

Press the lit center selector button. It illuminates when the balance is shifted left or right.



FESTIVAL 60/80 CONTROLS CLOCK

Set The Time



Clock

Festival features a multi-function, programmable clock. Before you can use any of festival's clock functions, you must first set the correct time.

Press the button to access all clock functions and controls.

Option Buttons

Note: Time of day must be set first using Selector buttons before setting wake times.

To wake up to music

WAKE

The Wake mode automatically turns Festival on and begins playing music at any time you choose.

Press WAKE button to ON mode.

Press the – or + wake/button until desired wake time is displayed in the message bar.

Select the music source you wish to wake to. If waking to the CD, make sure CDs are loaded and sequenced as desired.

Lightly press POWER on the unit or the remote to place Festival in Standby mode.

Festival automatically turns itself on and begins playing the selected source at the set time each day until the wake function is turned off.

Press WAKE button to OFF mode.

To set Sleep timer

SLEEP

In Sleep mode, Festival dims its screen and plays music from the selected source for a designated amount of time, then turns itself off.

Press SLEEP button repeatedly until desired play time is displayed 60, (30, o r 10 minutes).

When time has expired, Festival places itself in Standby, allowing Wake and Sleep functions to not interfere with each other.

To turn off Sleep function

Press SLEEP button repeatedly until OFF appears in the display.

To select a time standard

DISPLAY

Press repeatedly until desired time display appears.

- 12 HR Shows time in 12 hour time. (with a.m. or p.m.)
- 24 HR Shows time in 24 hour ("military") time. (no a.m. and p.m.)
- OFF Turns Clock display off.

Selector Buttons

Setting the time of day

Press and release the – or + Time button to adjust by one minute at a time.

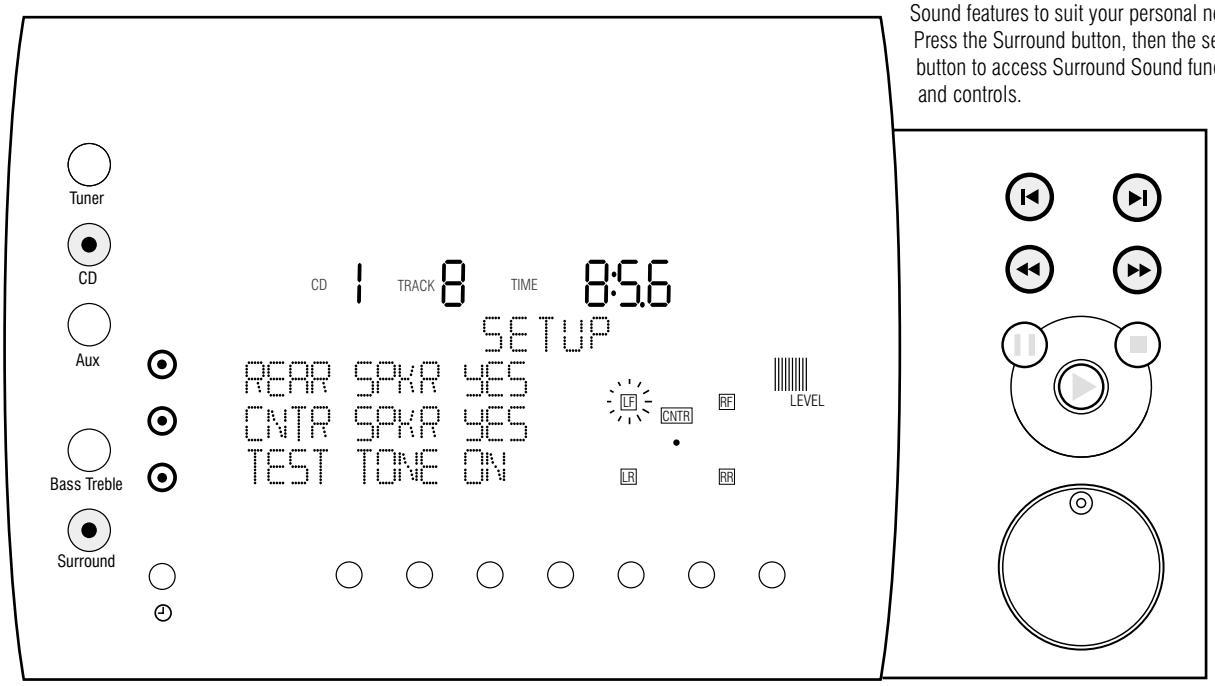
Press and hold the – or + Time button for a fast scroll through time.

FESTIVAL 60/80 CONTROLS SURROUND SETUP

Surround Setup

Festival 80 Only

Festival allows you to customize the Surround Sound features to suit your personal needs. Press the Surround button, then the setup button to access Surround Sound functions and controls.



Option Buttons

To turn rear speakers on or off

REAR SPKR

Press to activate surround speakers (display says YES) or deactivate (display says NO).

Note: If no surround speakers are connected, this setting should be NO. When they are connected, do not use this feature to mute their output.

To turn center speaker on or off

CNTR SPKR

Press to activate YES or deactivate NO center speaker. When the center speaker is turned off, Festival automatically generates a "phantom center" from the right and left front speakers.

Note: If no center speaker is connected, this setting should be NO. When a center speaker is connected, do not use this feature to mute its output.

To turn test tone on or off

TEST TONE

Press to turn test tone ON or OFF.

Use the Play Control buttons to select and adjust the output of the speakers until the volume is equal from all speakers.

To adjust the output level of individual speakers in surround mode, press TEST TONE to ON.

Press ◀◀ Select ▶▶ to select speaker to adjust.

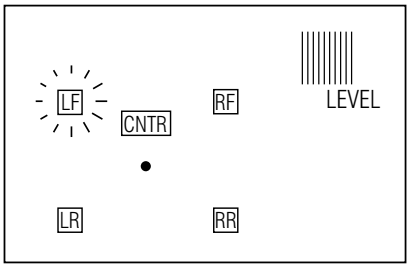
Press |◀ Level ▶| to adjust speaker output.

Repeat until all output levels are equal from all speakers.

Play Controls

Adjusting the reference speaker level

When test tone is ON, you should hear a static-like hiss from the left front speaker and the LF light on the display will blink. This is the reference speaker and can only be adjusted from the main volume control on the amplifier.



Selecting other speakers for level adjustment

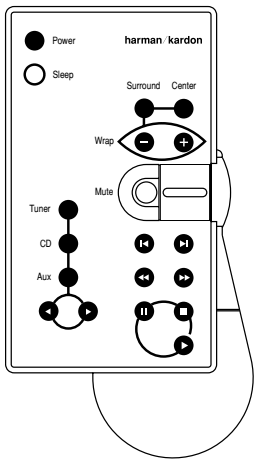
◀◀ Select ▶▶

Press and release to select individual speakers for test tone adjustment. Press and hold to move continuously between speakers for easy comparison.

Adjusting other speaker levels

|◀ Level ▶|

Press and release to incrementally adjust the test tone level for the selected speaker. Press and hold for continuous adjustment.



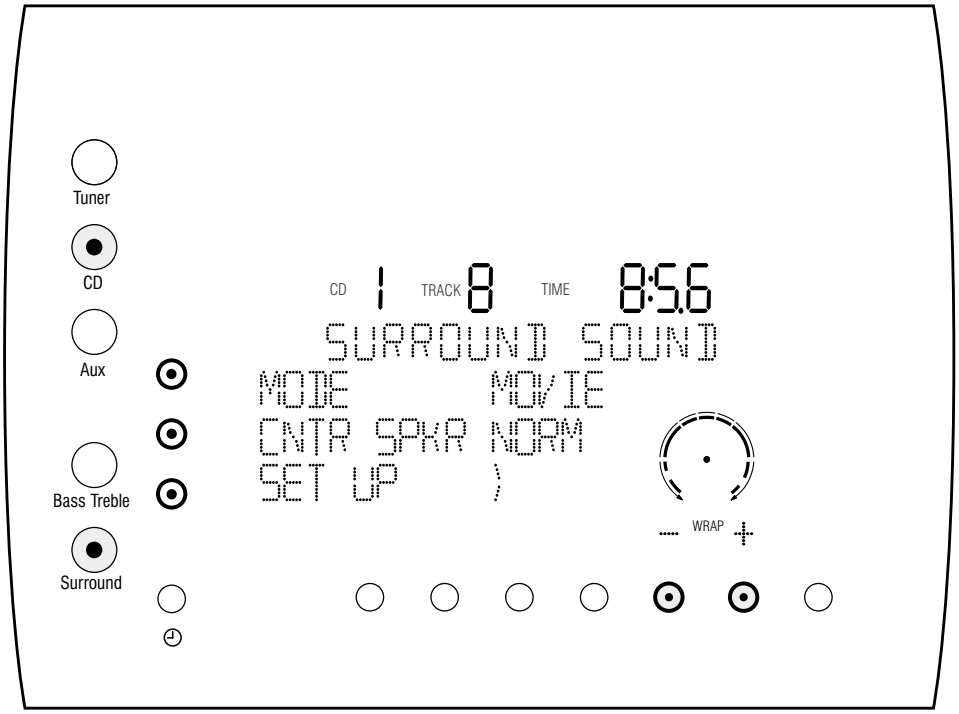
festival 80 remote

Remote Surround Sound Functions

The remote duplicates some of the Surround Sound buttons on the control unit. Use the remote to select and adjust some Surround Setup features while you are seated in the listening area for perfect customization.

FESTIVAL 60/80 CONTROLS SURROUND OPERATION

Customizing the Sound



Surround Operation

Festival 80

Festival 80 is equipped to deliver superior home theater sound for movies and music. Festival 80 uses a 5-speaker system and a subwoofer to create a realistic effects and surround imaging.

Press Surround to access all surround functions and controls.

Option Buttons

Choosing a Surround mode

MODE

Press repeatedly for desired Surround mode.

- MOVIE — Duplicates the acoustics of a movie theater. This mode activates Festival's Dolby®Pro Logic™ feature which reads the surround sound effects in movies.
- MUSIC — Creates optimal surround for music sources.
- HALL — Hall simulator.
- OFF — Surround sound turned off.

Adjusting the output of your center speaker

CNTR SPKR

Press repeatedly for desired center speaker mode.

- NORM — Center speaker loudness is equal to other speakers.
- BOOST — Increases center speaker loudness without affecting other speakers. This is a convenient way to selectively increase the center channel volume of movies or other video or Dolby Pro Logic sources.

Configuring your system for surround sound

SET UP

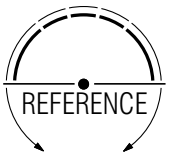
Press to access surround speaker setup functions. Pressing setup will change the function of some buttons and activate functions of others.

Selector Buttons

An innovative Festival feature called Wrap allows you to control the feeling of spaciousness in a listening area by creating the illusion of distance between the front and surround speakers.

Movie and Music surround modes begin with a factory default setting for the Wrap effect. The Movie and Music settings may be adjusted by using the selector buttons on the console. Press — to decrease or + to increase how far the sound "wraps" around the listening area. Dots on the Wrap indicator will light to show changes to the Wrap setting.

The Movie mode is based on Dolby Pro Logic, a surround sound process that uses information encoded in two-channel stereo recordings to produce four distinct channels (left, center, right and surround). Dolby Pro Logic is used in movies, television programs and some music recordings. When the word REFERENCE appears in the Wrap Indicator, the Wrap circuits are turned off for standard Pro Logic operation. Increase or decrease the amounts of Wrap as shown above to suit your listening taste.



FESTIVAL 60/80 TROUBLESHOOTING

If the problem is...	Make sure that the...
No lights on when POWER button pressed:	Unit is plugged into a live outlet. Power switch was pressed all the way in and released.
No sound is heard:	Speakers are connected. Unit has not been muted. Correct input function selector button is pressed.
No sound is heard: (Festival 60 only)	Amplifier is plugged in. Ribbon cable is attached to amplifier.
No sound is heard: (Festival 80 only)	Subwoofer is plugged in. Subwoofer is connected to the Controller.
Dolby Surround does not work on center and surround channels: (Festival 80 only)	Correct surround mode is selected. Center and/or surround speakers are selected. Surround and center levels are turned up. You are using a surround encoded source.
Selecting a Video source produces sound but no picture:	"T o TV" output is connected to the video input on your TVs.
The TV picture does not match the sound:	Video sources are properly connected to receiver. Video/antenna Switch on TV is set to Video.
No output from the left or right channels: (Festival 60 only)	Wires to that speaker are not disconnected/damaged. Balance is centered.
No output from one or more channels: (Festival 80 only)	Wires to that speaker are not disconnected/damaged. Test tone levels for that speaker are audible.
No center channel output:	Center channel speaker is selected. Phantom mode is not active. Unit is in the Pro Logic mode. Center channel level is properly adjusted. Center speaker is connected.
Tuner sound has a large amount of interference, or the "Stereo" display is not illuminated, or Tuner sound distorts and/or volume level is too low:	The antenna is properly connected. The antenna is properly located. The antenna is set in the proper direction. The antenna is adequate to receive the desired station.
Tuner is intermittent or continuously buzzing or hissing:	The unit is away from fluorescent lights, motors and other electrical appliances.
Festival does not respond to remote control:	Remote sensor on front of Festival is unobstructed. Remote is pointed directly at the remote sensor. Remote batteries are still good.

Festival 60 ASSEMBLY PARTS LIST

PART NUMBER	DESCRIPTION	QTY
CIS1001	FESTIVAL 60 COMPACT IMS	1
SA1717	“PACKED UNIT,FESTIVAL60 US”	1
PM1397	“Master Carton, Festival60"	1
SA1722	TOP UNIT CVR ASSY (60-US)	1
XX1312	Bushing PA BLACK	1
XX1296	LEG (RUBBER PAD)	4
SA1711	INTERCONNECT ASSY.	1
SA1712	FUNCTION/VIDEO PCB ASSY.	1
SA1713	PUSHBUTTON ASSY.	1
SA1714	CABINET SUB-ASSY.	1
SA1715	PLASTIC CAB ASSY.	1
332502-001	FITTING	1
SC1278	Screw BND T+	2
SC1288	”SCREW, 10mm x 3mm,"	3
332497-001	BUTTON IR	1
332503-001	“HOLDER,SLIDER-POWERSWITCH”	1
BR1546	SHIELD PLATE	1
BR1547	SHIELD PLATE	1
TP1123	TAPE DRY-ADHESIVE	0.8333
BR1548	SHIELD PLATE	1
TP1118	Electrical Tape Therm-X 1	0.1667
332486-001	“BASE,CONTROL PANEL”	1
332499-001	SHIELD PLATE	1
SC1260	Screw CSKT+	4
332500-001	SHIELD PLATE	1
332505-001	“HOLDER,SHIELD PLATE,LEFT”	1
332532-001	“HOLDER,SHIELD PLATE,RIGHT”	1
SC1268	“Screw, BND T+(3x12)”	2
SC1268	“Screw, BND T+(3x12)”	1
332507-001	SPACER	1
332506-001	“SLIDER,POWER SWITCH”	1
332484-001	“HOUSING, DISPLAY, PAINTED”	1
332484-XXX	“HOUSING, PLASTIC, MOLDED”	1
LS1065	RESIN POLYSTYRENE BLACK	0.25
332491-001	PUSHBUTTON	1
332490-001	PUSHBUTTON	1
332495-001	“INDICATOR, TOP UNIT”	1
SC1293	SCREW BND T+	4
XX1337	INSULATOR PVC	1
BR1539	STEEL SHIELD PLATE	1
332487-001	“PLATE, PVC”	1
SP1096	SPACER PLASTIC LOCKING	4
332483-001	“BASE, PLASTIC, PAINTED”	1
332483-XXX	“BASE, PLASTIC, MOLDED”	1
LS1065	RESIN POLYSTYRENE BLACK	0.525
BR1496	Spring	1
332485-001	“PANEL, FESTIVAL-60"	1
332485-XXX	”ASY, DISPLAY COVER, FEST."	1
333256-001	“COVER, DISPLAY, CONTROL”	1
LS1068	RESIN DENKA ABS	0.033
333257-001	“COVER, CONTROL PANEL, TOP”	1
LS1065	RESIN POLYSTYRENE BLACK	0.0661
SC1288	“SCREW, 10mm x 3mm,”	1
SC1269	“Screw,BND T+”	6
XX1338	INSULATOR PVC	1
BR1540	STEEL SHIELD PLATE	1
332504-001	HOLDER	1
332492-001	PUSHBUTTON	1
332494-001	PUSH BUTTON	1
332496-001	“ORNAMENT, TOP UNIT”	1
332498-001	ORNAMENT	1
332489-001	ROTARY KNOB	1
SA1810	CLUSTER ASSY FUNCTION/	1
CL1188	“CLUSTER, TOP UNIT, FEST.”	1
SA1087	FUNCTION PCB	1
CO1363	Connector 11P 2mm 2A 100V	1
CO1365	CONNECTOR 13P 2MM 2A100V	1
CO1374	Miniture Jack LR-SW	1
CO1377	RCA Pin Jack 2P	4
CP1697	“CAP, ELECT. 100uF, 16V”	2
CP1701	Electrolytic Cap. 47uF 16	4
IC1226	IC	1
IC1238	IC	1
RS2225	RES C/F MINI 100Kohm 5%	4
RS2239	RES C/F MINI 330 ohm 5%	4
CP1733	Pol. Prop. Flm Cap 220pF	2
RS2223	RES C/F MINI 1Kohm 5%	8
WI1702	JUMPER WIRE 24 AWG BARE	29
SA1089	VIDEO PCB	1
CO1376	RCA Pin Jack 1P	5
CP1697	“CAP, ELECT. 100uF, 16V”	2
CP1708	Electrolytic Cap. 22uF 50	3
IC1225	IC Prime-Time	1
RS2257	RES C/F MINI 75 ohm 5%	5
CP1750	Ceramic Cap. 68pF 50V	2
WI1702	JUMPER WIRE 24 AWG BARE	9
HA1213	HARNESS ASY 7-COND 200mm	1
HA1197	HARNESS ASSY	1
CC1064	“FERRITE CORE, TOROIDAL,”	1
IM1155	INSULATION SHRINK SLEEVE	0.06
SA1090	VOLUME CONTROL PCB	1
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	1
HA1130	CONNECTORIZES WIRE	1
RS2399	POTENTIOMETER W/GREEN LED	1
SA1091	IR SENSOR PCB	1
HA1068	“HARNESS, WIRE 3P”	1
IC1255	IR Sensor	1
CP1697	“CAP, ELECT. 100uF, 16V”	1
SA1093	POWER INDICATOR PCB	1
HA1115	“HARNESS, WIRE 4P”	1
LE1037	LED 3mm 5mcd	4
WI1702	JUMPER WIRE 24 AWG BARE	1
LB1265	Bar Code Traceability Lab	2
SA1086	“PRE-AMP PCB, FEST-60 US”	1
CP1811	Super Capacitor 1F	1
CO1369	Connector 5P 2mm 2A 100V	1
CO1370	Connectors 6P 2mm 2A 100V	1
CO1375	Jack 1P	2
CO1382	CONNECTOR 4P 2MM 2A 100V	1
CO1383	CONNECTOR HEADER 7-PIN	1
CO1389	CONNECTOR 14P 2mm 2A 100V	1
CP1700	Electrolytic Cap. 2200uF	3
CP1702	Electrolytic Cap. 470uF 1	2
CP1719	Metalized Flm Cap 0.039uF	6
CP1732	Pol. Prop. Flm Cap. 1500p	2
CP1733	Pol. Prop. Flm Cap 220pF	9
DI1192	“Zener Diode 0.4W (T/R,2"")"	1
DI1204	Zener Diode 0.4W	2
FH1007	Fuse Holder	2
HA1112	CONNECTORIZES WIRE 13P	1

IC1226	IC	3	FI1017	EMI FILTER 4-CIRCUIT	3
IC1232	IC Voltage Regulator +6VD	1	FI1014	FILTER EMI	6
IC1234	IC Voltage Regulator -6VD	1	FI1013	FILTER EMI	1
IC1236	IC	1	FI1018	“FILTER, EMI”	7
IC1245	IC ELECTRICAL VOLUME	1	IC1219	IC Prime-Time	1
IC1248	IC	1	MI1206	TRANSFORMER TOP UNIT (US)	1
IC1254	IC SMD OCTAL-D-TYPE LATCH	1	BR1542	STEEL SHIELD PLATE	1
IC1259	IC SMD 32KBYTE CMOS STAT.	1	HS1155	“HEATSINK, AMPLIFIER”	3
IC1262	IC	1	SC1262	“SCREW, BND + (M3x10)”	3
IC1265	IC LOW PWR CLOCK/CALENDAR	1	RS2225	RES C/F MINI 100Kohm 5%	20
IC1269	IC	2	RS2415	RES C/F 3.3Mohm 10% 1/2W	1
IC1270	IC SMD DUAL 2-to-4 LINE	1	DI1205	Switching Diode 90V 0.3W	9
IC1277	“IC, EEPROM, 256x8, CMOS”	1	DI1206	Switching Diode 40V 0.3W	4
IC1283	IC SMD DUAL 2-INPUT AND	1	RS2212	SMD RES 4.7Kohm 5% 1/10W	2
RS2226	RES C/F MIN 1Mohm 5% 1/4W	3	IC1313	IC QUAD LOW-PWR LINE	1
RS2231	RES C/F MINI 18Kohm 5%	2	CP1878	CAPACITOR 10pF 50V	1
RS2233	RES C/F MINI 22 ohm 5%	3	FI1020	EMI FILTER	1
RS2240	RES C/F MINI 3.3Kohm 5%	2	RS2431	RES C/F MINI 30Kohm 5%	2
RS2247	RES C/F MINI 47 ohm 5%	2	RS2242	RES C/F MINI 330Kohm 5%	6
RS2260	RES C/F MINI 8.2Kohm 5%	2	RS2432	RES C/F MINI 200Kohm 5%	2
RS2261	RES C/F 1Kohm 5% 1/3W	1	FI1011	FILTER EMI	16
SW1078	Push Switch 1P TV3 Prime-	1	CO1411	CONNECTOR IC SOCKET DIP28	1
TR1272	PNP XSTR 50V/100mA 300mW	1	CO1359	Connector 2.5A250V	1
TR1281	PNP XSTR 60V/3A 25W	1	CO1374	Miniture Jack LR-SW	1
TR1304	NPN XSTR 60V/3A 25W	1	CL1192	“CLUSTER, PRE-AMP/HDPH”	1
XT1006	“XTAL, 32.768KHz”	1	CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	2
XT1011	“XTAL, 15MHZ”	1	CP1911	SMD CAP 0.1uF 10% 25V	16
CP1706	Electrolytic Cap. 1uF 50V	3	RS2244	RES C/F MINI 3.9Kohm 5%	1
IC1241	Photocoupler	1	CP1843	“CAP.CERAM, 4700pF, 250V”	2
RS2389	RES C/F 4.7Kohm 5% 1/3W	1	TR1341	NPN XSTR 30V/800mA 600mW	1
RS2238	RES C/F MINI 2.7Kohm 5%	8	CP1887	SMD CAP 15pF 5% 50V	2
RS2237	RES C/F MINI 270 ohm 5%	1	RS2211	SMD RES 470 ohm 5% 1/10W	2
TR1290	PNP XSTR 50V/200mA 300mW	1	SC1271	Screw Fpt+	4
RS2290	RES C/F 180 ohm 5% 1/3W	2	332501-001	“BRACKET, MTG,XFORMER”	1
RS2341	RES C/F 100 ohm 5% 1/3W	2	SP1102	INSULATOR RUBBER	1
CO1402	CONNECTOR 34-POS	1	CC1065	FERRITE CHIP BEAD	26
CO1367	Connector 4P 2mm 2A 100V	2	HA1210	HARNESS ASY 5-COND 200mm	1
CO1388	CONNECTOR 10P 2mm 2A 100V	1	HA1120	CONNECTORIZES WIRE	1
CO1363	Connector 11P 2mm 2A 100V	1	CC1064	“FERRITE CORE, TOROIDAL,”	1
CP1697	“CAP, ELECT. 100uF, 16V”	3	IM1155	INSULATION SHRINK SLEEVE	0.06
CP1701	Electrolytic Cap. 47uF 16	18	HA1166	HARNESS ASSY	1
CP1815	Cap Poly Film 15nF 5% 50V	2	HA1214	HARNESS ASY 11-COND 160mm	1
CP1817	Cap Poly Film 68nF 5% 50V	2	HA1166	HARNESS ASSY	1
CP1777	CAPACITOR CERAMIC 22pF 50	2	CC1064	“FERRITE CORE, TOROIDAL,”	1
CP1725	Metallized Flm Cap. 0.22u	2	IM1155	INSULATION SHRINK SLEEVE	0.06
DI1201	Diode Rectifier 1 A 400V	10	LB1265	Bar Code Traceability Lab	2
IC1307	IC VOLTAGE REGULATOR +5V	1	CP1891	CAPACITOR 680pF 10% 50V	2
RS2250	RES C/F MINI 47Kohm 5%	4	RS2249	RES C/F MINI 4.7Kohm 5%	3
RS2315	RES FUSE 4.7 ohm 2% 1/4W	1	RS2235	RES C/F MINI 22Kohm 5%	6
TR1268	NPN XSTR 50V/30mA 300mW	2	RS2239	RES C/F MINI 330 ohm 5%	9
TR1283	NPN XSTR 20V/300mA 400mW	10	CP1757	CERAMIC CAP 0.01uF 50V	1
TR1291	NPN XSTR 50V/200mA 300mW	2	RS1711	SMD RES 220 ohm 5% 1/8W	1
FS1089	FUSE SLO BLO 0.5A 250V	1	IC1320	IC EPROM 128K x 8 DIP32	1
CP1863	ELECTROLYTIC CAP.	2	332488-001	“DISPLAY WINDOW, FEST’60"	1
CP1707	Electrolytic Cap. 10uF 50	2	332482-001	”HOUSING, TOP UNIT"	1
CP1722	Metallized Flm Cap. 0.01u	16	LB1331	“LABEL ""MASK"", FESTIVAL"	1
DI1196	Zener Diode 0.4W	3	PM1399	“Foam Pad, Top Unit, Right”	1
RS2223	RES C/F MINI 1Kohm 5%	24	PM1421	Top Unit Sleeve	1
RS2224	RES C/F MIN 10Kohm 5%	13	PM1224	“Plastic Bag 14""Lx20""Wx0.0"	1
TR1269	PNP XSTR 50V/30mA 300mW	3	PM1400	“Foam Pad, Top Unit, Left”	1
CP1731	Pol. Prop. Flm Cap. 1000p	2	LB1317	LABEL JULIAN DATE CODE	1
CP1711	Electrolytic Cap. 4.7uF 5	1	LB1318	“LABEL BARCODE, FESTIVAL”	1
RS2222	RES C/F MINI 100 ohm 5%	1	LB1314	LABEL FESTIVAL-60 TOP	1

SA1825	"DISPLAY PCB ASSY, U.S."	1	SA1732	CD PCB-CHASSIS ASSY	1
CP1799	"CAP, Chip 100 pF 50V"	3	SA1730	CD FRONT PANEL ASSY	1
CP1812	"Cap, Chip 12pF 50V"	2	332472-001	PANEL	1
CP1822	CAP. CHIP 0.33uF 50V	28	332476-001	LID	1
DS1001	Display VFD Prime-Time	1	XX1296	LEG (RUBBER PAD)	4
IC1250	IC 32-BIT LED DRIVER	1	SC1260	Screw CSKT+	4
IC1252	IC 40-BIT VFD GRID ANODE	3	SA1731	CD UNIT CHASSIS ASSY	1
IC1253	IC SMD 20-BIT VFD ANODE/	1	332475-001	CHASSIS	1
IC1254	IC SMD OCTAL-D-TYPE LATCH	1	SP1088	Spacer/Rubber	3
IC1276	IC SMD INVERTER HIGH	1	ME1001	CD Mechanism and Screws	1
PC1236	"PC,DISPLAY BD, 68PIN-PLCC"	1	SC1288	"SCREW, 10mm x 3mm,"	1
RS2193	SMD RES 100Kohm 5% 1/10W	8	332481-001	"SPRING CLIP,CHASSIS"	2
RS2219	SMD RES 8.2Kohm 5% 1/10W	1	WA1088	"WASHER, FLAT, .300-OD;"	1
TH1018	TRIAC 400V 3A	1	SC1288	"SCREW, 10mm x 3mm,"	5
TR1302	SMD NPN XSTR 50V/1A 500mW	6	332477-001	PUSHBUTTON	1
XT1008	"Xtal, Osc 24MHz"	1	332478-001	INDICATOR	1
TR1310	SMD NPN XSTR 50V/30mA	1	332469-001	PLASTIC FOOT	4
TR1311	SMD PNP XSTR 50V/30mA	1	WA1032	Washer Plain #6 Zinc Fini	1
IC1259	IC SMD 32KBYTE CMOS STAT.	1	332530-001	"BRACKET,SMALL PCB"	1
IC1263	SMD IC 5V VOLTAGE REG.	6	XX1314	BAND PA	2
CP1707	Electrolytic Cap. 10uF 50	1	332529-001	"INSULATOR, PVC"	1
CP1849	"CAP.ELECT. 33uF, 50V"	2	LB1320	"OVERLAY, ADHESIVE"	1
IC1314	IC MICOM OTP 16MHz 0-70C	1	TP1118	Electrical Tape Therm-X 1	0.1667
SW1085	SWITCH	23	SC1261	"SCREW,BND T+ (3x8)"	2
LE1040	LED GREEN	15	SC1292	SCREW BND T+	1
CP1821	"CAP., CHIP 0.1uF 50V"	10	332530-001	"BRACKET,SMALL PCB"	1
RS2213	SMD RES 47Kohm 5% 1/10W	1	XX1314	BAND PA	1
RS1292	SMD RES 10Kohm 5% 1/10W	8	SC1261	"SCREW,BND T+ (3x8)"	2
LE1041	LED GREEN	16	SC1292	SCREW BND T+	1
RS2430	SMD RES 82 ohm 5% 1/10W	6	SC1288	"SCREW, 10mm x 3mm,"	4
RS2211	SMD RES 470 ohm 5% 1/10W	7	SC1261	"SCREW,BND T+ (3x8)"	2
CC1065	FERRITE CHIP BEAD	20	SA1812	CD INDICATOR/CONNECTOR	1
MI1220	INDUCTOR	1	SA1085	CD INDICATOR PCB	1
HA1211	HARNESS ASY 14-COND 160mm	1	SW1079	Tact Switch	1
HA1113	"HARNESS, WIRE 14P"	1	HA1180	"HARNESS, WIRE 5P"	1
CC1064	"FERRITE CORE, TOROIDAL,"	1	CL1193	CLUSTER CD INDICATOR BD	0.2
IM1155	INSULATION SHRINK SLEEVE	0.06	LB1265	Bar Code Traceability Lab	1
HA1212	HARNESS ASY 10-COND 160mm	1	SA1083	CD CONNECTOR PCB	1
HA1110	HARNESS ASY	1	CO1404	CONNECTOR 2mm 2A 100V	1
CC1064	"FERRITE CORE, TOROIDAL,"	1	CO1405	CONNECTOR	1
IM1155	INSULATION SHRINK SLEEVE	0.06	CO1403	CONNECTOR 34-POS	1
LB1265	Bar Code Traceability Lab	2	FI1015	EMI FILTER	4
RS2206	SMD RES 270 ohm 5% 1/10W	22	FI1016	EMI FILTER	3
RS2408	SMD RES 560 ohm 5% 1/10W	4	CL1194	CLUSTER CD CONNECTOR BD	0.2
SA1718	ACCESSORIES BAG	1	CP1821	"CAP., CHIP 0.1uF 50V"	1
XX1292	Power Supply Cord 7A AC 1	2	TE1197	Terminal Prime-Time	1
AN1002	"ANTENNA, T-FEEDER, FM"	1	LB1265	Bar Code Traceability Lab	2
AN1003	"ANTENNA, AM, LOOP"	1	SA1084	TUNER PCB	1
XX1293	Remote Control Festiv 60	1	CP1693	"CAP, ELEC; 0.22uF 50V"	1
CO1385	Plug(Matching Adap)	1	CP1697	"CAP, ELECT. 100uF, 16V"	2
BA1001	"Battery, Dry AA Alkaline"	2	CP1699	"CAP, ELEC; 220uF 16V"	1
PM1431	"CTN, ACCESS KIT, FEST-60"	1	CP1701	Electrolytic Cap. 47uF 16	3
SH1110	"MANUAL, OWNER'S, FESTIVAL"	1	CP1711	Electrolytic Cap. 4.7uF 5	2
XX1335	BUNDLE SPKR WIRE #18 20FT	2	CP1741	Ceramic Cap. 0.022uF 50V	9
HA1164	HARNESS RIBBON CABLE	1	CP1743	Ceramic Cap. 330pF 50V	2
PM1224	"Plastic Bag 14""Lx20""Wx0.0"	1	CP1744	Ceramic Cap. 560pF 50V	1
SH1119	WARRANTY CARD FESTIVAL	1	CP1749	Ceramic Cap. 100pF 50V	2
SH1111	"SAFETY SHEET , FESTIVAL"	1	CP1778	Cap. Ceramic 4700pF 50V 1	1
SH1120	ADDENDUM SHEET CD CAUTION	1	CP1795	"CAP, ELEC; 0.1uF 50V"	1
SA1728	CD UNIT COVER ASSY	1	CR1001	Ceralock 4MHz Prime-Time	1
332474-001	"BACK PANEL, CD"	1	CR1004	Ceramic Resonator 450KHz	1
332473-001	"COVER, CD UNIT"	1	CR1005	Ceramic Osc	1
SA1729	CD INTERCONNECT ASSY	1	FI1008	"FILTER,AUDIO LC, VARIABLE"	2

FI1009	Ceramic Filter 10.7MHz 18	3	IC1230	"IC, RADIO DATA SYSTEM"	1
FI1005	"LC COMPOSITE, VARIABLE"	1	WI1702	JUMPER WIRE 24 AWG BARE	54
IC1233	IC	1	BR1543	STEEL SHIELD PLATE	1
IC1237	IC	1	LB1265	Bar Code Traceability Lab	2
IC1267	IC	1	PM1224	"Plastic Bag 14""Lx20""Wx0.0"	1
IC1268	IC	1	PM1422	"End Pad, CD/Amp, Left"	1
IF1001	"IF BLOCK 450KHZ, CERAMIC"	1	PM1423	"End Pad, CD/Amp, Right"	1
MI1178	Discri(Type KM)10.7MHz	1	PM1402	"Sleeve, CD/Amp"	1
MI1177	Discri(Type 7KM) 10.7MHz	1	LB1307	"Label, CD Unit (Bottom)"	1
RF1002	RF Block	1	LB1319	LABEL LASER WARNING	1
RS2189	"POT, TRIMMER, 50K OHM"	1	LB1322	LABEL CD/AMP SERIAL NUMB.	4
RS2222	RES C/F MINI 100 ohm 5%	3	LB1317	LABEL JULIAN DATE CODE	2
RS2225	RES C/F MINI 100Kohm 5%	4	SA1898	CD MAIN PCB ASSY	1
RS2226	RES C/F MIN 1Mohm 5% 1/4W	1	CO1365	CONNECTOR 13P 2MM 2A100V	1
RS2230	RES C/F MINI 15Kohm 5%	1	CO1369	Connector 5P 2mm 2A 100V	2
RS2233	RES C/F MINI 22 ohm 5%	1	CP1740	Pol. Prop. Flm Cap. 8200p	2
RS2234	RES C/F MINI 2.2Kohm 5%	5	CP1759	Ceramic Cap. 1500pF 50V	1
RS2239	RES C/F MINI 330 ohm 5%	2	CP1762	Ceramic Cap. 0.033uF 50V	2
RS2249	RES C/F MINI 4.7Kohm 5%	2	CR1002	Ceralock 8MHz Prime-Time	1
RS2253	RES C/F MINI 5.6Kohm 5%	1	IC1222	IC Prime-Time	1
RS2275	RES C/F MINI 180 ohm 5%	1	IC1223	IC Prime-Time	1
RS2277	RES C/F MINI 270Kohm 5%	1	IC1235	IC SMD REVERSIBLE MOTOR	2
RS2280	RES C/F MINI 82 ohm 5%	1	IC1286	"IC,SMD HEX INVERTER"	1
RS2291	RES C/F MINI 27Kohm 5%	2	PC1181	PCB CD 250x100 DBL-SIDED	1
RS2332	RES C/F MINI 390 ohm 5%	4	RS2220	SMD RES 82Kohm 5% 1/10W	2
TE1204	Terminal	1	RS2187	"POT, TRIMMER, 10K-OHM"	1
TR1276	NPN XSTR 25V/50mA 300MHz	2	RS2196	SMD RES 12Kohm 5% 1/10W	3
TR1277	NPN XSTR 20V/500mA 500mW	2	RS2197	SMD RES 120Kohm 5% 1/10W	2
TR1278	PNP XSTR 50V/150mA 300mW	1	RS2214	SMD RES 470Kohm 5% 1/10W	1
TR1279	N-CH FET 50V/6.5mA 300mW	1	RS2216	SMD RES 510Kohm 5% 1/10W	1
TU1001	FM Tuner Prime-Time	1	RS2218	SMD RES 680Kohm 5% 1/10W	1
XT1002	Xtal.OSC 4332KHz Prm-time	1	RS2272	RES NETWORK 47Kohm (10x)	1
XT1003	XTAL.OSC 4500KHz	1	XT1005	"Xtal, Osc 16.9344MHz"	1
TR1268	NPN XSTR 50V/30mA 300mW	1	RS2194	SMD RES 1Mohm 5% 1/10W	2
TR1269	PNP XSTR 50V/30mA 300mW	1	CP1866	ELECTROLYTIC CAP. 4700uF	2
CP1742	Ceramic Cap. 220pF 50V	3	CP1711	Electrolytic Cap. 4.7uF 5	1
DI1205	Switching Diode 90V 0.3W	4	CP1710	"CAP, ELEC; 3.3uF 50V"	1
RS2374	RES C/F MINI 12Kohm 5%	1	CP1868	POLYPROPYLENE FILM CAP.	4
CP1769	Semiconductor Cap. 0.047u	6	CP1869	POLYPROPYLENE FILM CAP.	4
CP1707	Electrolytic Cap. 10uF 50	7	CP1758	CERAMIC CAP. 0.1uF 25V	4
CP1710	"CAP, ELEC; 3.3uF 50V"	1	RS2391	SMD RES 27Kohm 5% 1/10W	1
HA1173	"HARNESS, WIRE 13P"	1	RS2395	SMD RES 180 ohm 5% 1/10W	2
TR1272	PNP XSTR 50V/100mA 300mW	3	CP1873	CERAMIC CAPACITOR	1
CP1706	Electrolytic Cap. 1uF 50V	4	HA1168	HARNESS FESTIVAL	1
CP1709	Electrolytic Cap. 2.2uF 5	2	HA1167	HARNESS FESTIVAL	1
CP1824	Ceramic Cap. 470pF 50V	2	HA1171	HARNESS FESTIVAL	1
RS2240	RES C/F MINI 3.3Kohm 5%	4	HA1169	HARNESS FESTIVAL	1
RS2229	RES C/F MINI 1.5Kohm 5%	2	HA1170	HARNESS FESTIVAL	1
RS2231	RES C/F MINI 18Kohm 5%	2	IC1284	IC SMD QUAD 2-CH MUX	1
RS2236	RES C/F MINI 220Kohm 5%	2	IC1300	IC	1
RS2329	RES C/F MINI 150Kohm 5%	2	IC1301	IC SMD 5V TRACKING REG.	2
RS2318	RES C/F MINI 6.8Kohm 5%	3	IC1302	PHOTOCOUPLER	2
RS2248	RES C/F MINI 470 ohm 5%	1	CP1870	CERAMIC CAPACITOR	4
TR1273	NPN XSTR 50V/100mA 300mW	1	CO1370	Connectors 6P 2mm 2A 100V	2
RS2420	TRIM-POT 200Kohm	1	CO1371	Connectors 8P 2mm 2A 100V	1
RS2223	RES C/F MINI 1Kohm 5%	10	CO1382	CONNECTOR 4P 2MM 2A 100V	1
CP1776	Capacitor Ceramic 15pF 50	1	CO1384	Connector	1
PC1180	PCB CD Tuner	1	RS2200	SMD RES 1.8Kohm 5% 1/10W	1
RS2224	RES C/F MIN 10Kohm 5%	9	RS2191	SMD RES 1Kohm 5% 1/10W	4
CP1745	Ceramic Cap. 15pF 50V	5	RS2211	SMD RES 470 ohm 5% 1/10W	8
RS2250	RES C/F MINI 47Kohm 5%	1	CP1757	CERAMIC CAP 0.01uF 50V	9
HA1193	HARNESS ASSY	1	TR1283	NPN XSTR 20V/300mA 400mW	4
RS2256	RES C/F MINI 68Kohm 5%	1	TR1310	SMD NPN XSTR 50V/30mA	5

RS2394	SMD RES 6.8Kohm 5% 1/10W	1	HA1111	“HARNESS, WIRE 11P”	1
RS2207	SMD RES 3.3Kohm 5% 1/10W	4	CC1064	“FERRITE CORE, TOROIDAL,”	1
RS2208	SMD RES 33Kohm 5% 1/10W	1	IM1155	INSULATION SHRINK SLEEVE	0.06
IC1141	SMD IC OP AMP Dual Plasti	4	RS2462	RES C/F ZERO ohm 5% 1/8W	1
CP1706	Electrolytic Cap. 1uF 50V	8	RS2195	SMD RES 10 ohm 5% 1/10W	4
CP1814	Cap Alum El 47uF 20% 35V	12	TR1281	PNP XSTR 60V/3A 25W	1
CP1708	Electrolytic Cap. 22uF 50	2	LB1265	Bar Code Traceability Lab	2
CP1697	“CAP, ELECT. 100uF, 16V”	6	TR1338	TRANSISTOR	6
CP1735	Pol. Prop. Flm Cap 390pF	4	IC1328	IC 8-BIT MICROCOMPUTER	1
CP1713	Electrolytic Cap. 0.47uF	2	CO1303	Connector Header 3-Pos 0.	1
IC1305	IC	1	CP1849	“CAP.ELECT. 33uF, 50V”	1
TR1335	PNP XSTR 30V/800mA 600mW	3	FESTIVAL60	“SPEAKER SET, FESTIVAL60"	1
TE1212	TERMINAL	5	SA1723	AMP COVER ASSY	1
CP1885	SMD CAP 470pF 10% 50V	3	332466-001	”BACK PANEL, AMP"	1
CP1886	CAL ALUM EL 1000uF 20%	1	332524-001	COVER	1
IC1310	IC VOLTAGE REGULATOR +5V	1	SA1724	AMP FRONT PANEL ASSY	1
HA1172	HARNESS FESTIVAL	1	332465-001	FRONT PANEL	1
TR1337	SMD NPN XSTR 50V/70mA	1	SA1725	AMP TRANSFORMER ASSY	1
RS2407	SMD RES ZERO ohm 5% 1/10W	1	332521-001	“BACK STIFFENER, CHASSIS”	1
RS2408	SMD RES 560 ohm 5% 1/10W	2	SC1263	“SCREW, BND + (M4x6)”	4
RS2404	SMD RES 43 ohm 5% 1/10W	2	XX1314	BAND PA	2
TE1210	TERMINAL	1	SA1726	AMP PCB-CHASSIS ASSY	1
CP1888	SMD CAP 220pF 10% 50V	1	332523-001	“CLAMP, HEAT SINK”	1
CP1887	SMD CAP 15pF 5% 50V	2	SP1090	SILPAD TO-218 K-10 W/ Adh	4
RS2190	SMD RES 100 ohm 5% 1/10W	49	SC1261	“SCREW,BND T+ (3x8)”	6
TR1311	SMD PNP XSTR 50V/30mA	2	WA1083	“WASHER, OT”	1
DI1213	“DIODE, ZENER, SMD”	2	SA1727	AMP CHASSIS ASSY	1
RS2204	SMD RES 22Kohm 5% 1/10W	16	332520-001	“HOLDER, HEAT SINK”	1
CO1364	Connector 12P 2mm 2A 100V	1	SC1260	Screw CSKT+	4
RS2209	SMD RES 330Kohm 5% 1/10W	2	XX1296	LEG (RUBBER PAD)	4
RS2199	SMD RES 150Kohm 5% 1/10W	2	332469-001	PLASTIC FOOT	4
RS2198	SMD RES 15Kohm 5% 1/10W	6	BR1514	“CABIBACK ASSEMBLY, AMP”	1
CP1891	CAPACITOR 680pF 10% 50V	1	332522-001	“HEAT SINK, AMP”	1
RS2393	SMD RES 680 ohm 5% 1/10W	1	SC1292	SCREW BND T+	2
RS2411	SMD RES 390 ohm 5% 1/10W	3	SC1261	“SCREW,BND T+ (3x8)”	2
CP1880	“CAP, 3pF, 50V”	3	SC1262	“SCREW, BND + (M3x10)”	2
RS2193	SMD RES 100Kohm 5% 1/10W	9	WA1089	“WASHER, SPLIT, 250-OD;”	3
RS2213	SMD RES 47Kohm 5% 1/10W	10	SP1093	INSULATOR	1
RS2405	SMD RES 1.5Kohm 5% 1/10W	2	SC1260	Screw CSKT+	7
CP1889	SMD CAP 100pF 5% 50V	1	332468-001	“LIGHT RING, BUTTON”	1
CP1890	CAPACITOR 47pF 5% 50V SMD	1	332471-001	ORNAMENT	1
RS2203	SMD RES 220 ohm 5% 1/10W	3	332467-001	LIGHT BAR	1
IC1285	IC SMD DIFFERENTIAL 4-CH	1	SC1261	“SCREW,BND T+ (3x8)”	2
RS2219	SMD RES 8.2Kohm 5% 1/10W	1	SC1288	“SCREW, 10mm x 3mm,”	6
CP1853	“CAP ALUM EL 2,200uF 20%”	2	332481-001	“SPRING CLIP,CHASSIS”	2
IC1313	IC QUAD LOW-PWR LINE	1	SC1288	“SCREW, 10mm x 3mm,”	4
RS2212	SMD RES 4.7Kohm 5% 1/10W	11	SA1806	CLUSTER ASSY AMP	1
CP1821	“CAP., CHIP 0.1uF 50V”	21	CL1184	“CLUSTER, AMP, FEST60/70"	1
CP1699	“CAP, ELEC; 220uF 16V”	2	SA1078	AMP MAIN PCB ASSY	1
RS2192	SMD RES 10Kohm 5% 1/10W	20	CP1843	”CAP.CERAM, 4700pF, 250V"	1
DI1206	Switching Diode 40V 0.3W	5	CP1697	“CAP, ELECT. 100uF, 16V”	1
MI1219	INDUCTOR	1	CP1701	Electrolytic Cap. 47uF 16	2
CP1763	Ceramic Cap. 0.047uF 50V	3	CP1750	Ceramic Cap. 68pF 50V	2
RS2245	RES C/F MINI 39Kohm 5%	1	CP1731	Pol. Prop. Flm Cap. 1000p	2
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	4	CP1695	“CAP, ELECT, 470uF, 6.3V”	2
TR1341	NPN XSTR 30V/800mA 600mW	6	CP1749	Ceramic Cap. 100pF 50V	2
DI1201	Diode Rectifier 1 A 400V	10	CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	8
TR1334	SMD PNP XSTR 50V/50mA	1	CO1366	Connector 2P 7.92mm 7A 25	1
HA1215	HARNESS ASY 6-COND 100mm	1	CO1384	Connector	1
HA1126	CONNECTORIZES WIRE	1	CO1368	Connector 3P 3.96mm 7A 25	1
CC1064	“FERRITE CORE, TOROIDAL,”	1	CO1367	Connector 4P 2mm 2A 100V	1
IM1155	INSULATION SHRINK SLEEVE	0.06	DI1189	Bridge Diode 200V 4A	1
HA1216	HARNESS ASY 11-COND 100mm	1	DI1192	“Zener Diode 0.4W (T/R,2"")"	1

CO1386	Pin Jack	1
TR1290	PNP XSTR 50V/200mA 300mW	2
TR1284	NPN XSTR 120V/100mA 300mW	3
TR1280	PNP XSTR 120V/100mA 300mW	6
TR1286	NPN XSTR 90V/50mA 300mW	8
TR1326	NPN XSTR 140V/10A 100W	2
TR1279	N-CH FET 50V/6.5mA 300mW	2
RS2225	RES C/F MINI 100Kohm 5%	1
RS2241	RES C/F MINI 33Kohm 5%	1
RS2287	RES C/F 6.8Kohm 5% 1/3W	2
RS2235	RES C/F MINI 22Kohm 5%	1
RS2243	RES C/F MINI 3.3Mohm 5%	1
RS2262	RES C/F 1.5Kohm 5% 1/3W	4
RS2237	RES C/F MINI 270 ohm 5%	2
RS2171	RES FUSE 10 ohm 5% 1/4W	4
RS2264	RES C/F 1.6Kohm 5% 1/3W	2
RS2172	RES FUSE 100 ohm 5% 1/4W	4
RS2263	RES C/F 15Kohm 5% 1/3W	4
RS2169	RES FUSE 2.2 ohm 5% 1/4W	4
RS2271	RES M/0 F/R 0.22ohm 5% 3W	4
TE1197	Terminal Prime-Time	1
RS2289	POT. TRIM. 1K-OHM	2
SC1262	“SCREW, BND + (M3x10)”	1
HS1156	Heatsink Festival	1
CP1706	Electrolytic Cap. 1uF 50V	1
TR1287	PNP XSTR 100V/1A 900mW	4
TR1319	PNP XSTR 140V/10A 100W	2
RS2234	RES C/F MINI 2.2Kohm 5%	4
RS2252	RES C/F MINI 560 ohm 5%	2
RS2326	RES C/F 220 ohm 5% 1/3W	4
RS2265	RES C/F 2.2Kohm 5% 1/3W	2
RS2383	RES C/F 560 ohm 5% 1/6W	2
RS2390	RES FUSE 560 ohm 2% 1/4W	2
CP1810	“CAP. ELECT. 10,000uF, 50V”	2
DI1197	Switching Diode	2
DI1205	Switching Diode 90V 0.3W	6
TR1291	NPN XSTR 50V/200mA 300mW	8
TR1289	NPN XSTR 100V/1A 900mW	4
TR1228	“TRANSISTOR, 150V, 1W”	2
IC1240	Photocoupler 70V 0.15W	1
RS2238	RES C/F MINI 2.7Kohm 5%	2
RS2382	RES C/F MINI 1.8Kohm 5%	1
RS2176	RES FUSE 560 ohm 5% 1/4W	8
TR1227	PNP XSTR 150V/100mA 900mW	2
CO1402	CONNECTOR 34-POS	1
CP1698	Electrolytic Cap. 22uF 16	1
CP1695	“CAP, ELECT, 470uF, 6.3V”	2
TR1324	NPN XSTR 25V/1.5A 900mW	1
TR1330	PNP XSTR 120V/800mA 900mW	1
RS2253	RES C/F MINI 5.6Kohm 5%	2
RS2236	RES C/F MINI 220Kohm 5%	2
RS2224	RES C/F MIN 10Kohm 5%	3
CO1373	Connector 2.5A 250V	1
TE1195	Terminal 4P	1
RS2261	RES C/F 1Kohm 5% 1/3W	2
RS2397	RES M/O F/R 10 ohm 5% 2W	2
RS2280	RES C/F MINI 82 ohm 5%	4
RS2167	RES FUSE 100 ohm 2% 1/4W	6
RS2168	RES FUSE 15 ohm 2% 1/4W	4
CP1878	CAPACITOR 10pF 50V	4
DI1214	DIODE ZENER	1
RS2249	RES C/F MINI 4.7Kohm 5%	5
RS2239	RES C/F MINI 330 ohm 5%	1
RS2410	RES C/F 82Kohm 5% 1/3W	1
RE1022	Relay	1
WI1702	JUMPER WIRE 24 AWG BARE	62
CP1817	Cap Poly Film 68nF 5% 50V	2
CP1707	Electrolytic Cap. 10uF 50	6
RS2229	RES C/F MINI 1.5Kohm 5%	4
RS2401	RES C/F MINI 1.2Kohm 5%	3
RS2223	RES C/F MINI 1Kohm 5%	1
RS2428	RES FUSE 330 ohm 5% 1/6W	2
RS2312	RES C/F 33Kohm 5% 1/3W	4
RS2256	RES C/F MINI 68Kohm 5%	1
SA1079	AMP INDICATOR PCB ASSY	1
LE1037	LED 3mm 5mcd	4
HA1160	HARNESS 300mm 3P-SA	1
RS2238	RES C/F MINI 2.7Kohm 5%	4
RS2229	RES C/F MINI 1.5Kohm 5%	4
WI1702	JUMPER WIRE 24 AWG BARE	2
SA1080	AMP PRIMARY PCB	1
FH1007	Fuse Holder	2
HA1119	Connect. Wire 300mm VAR-2	1
FS1084	Fuse 2.5A AC 125V	1
SA1081	AMP SECONDARY PCB	1
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	2
DI1201	Diode Rectifier 1 A 400V	4
CP1699	“CAP, ELEC; 220uF 16V”	2
HA1159	HARNESS 120mm 2P-SA	1
RS2384	RES FUSE 2.2 ohm 5% 1/4W	2
HA1191	HARNESS ASSY	1
LB1265	Bar Code Traceability Lab	2
MI1204	“TRANSFORMER, AMP (US)”	1
PM1224	“Plastic Bag 14””Lx20””Wx0.0"	1
PM1422	“End Pad, CD/Amp, Left”	1
PM1423	“End Pad, CD/Amp, Right”	1
PM1402	“Sleeve, CD/Amp”	1
LB1317	LABEL JULIAN DATE CODE	1
LB1321	LABEL FESTIVAL-60 AMP	1
LB1309	“Label, Top/Amp (Bottom)”	1
LB1322	LABEL CD/AMP SERIAL NUMB.	4
BR1569	METAL FITTING	1
XX1357	CLIP FESTIVAL	1
SC1261	“SCREW,BND T+ (3x8)”	4
PM1472	“PAD FOR PALLET 40””x48”””	0.1667

Festival 80 ASSEMBLY PARTS LIST

PART NUMBER	DESCRIPTION	QTY
CIS1005	FESTIVAL 80 EUROPE	1
SA1776	PACKED UNIT FESTIVAL 80	1
SA1786	ACCESSORY PACK	1
XX1294	Power Cord W/Plug (EU)	2
XX1334	7-PIN DIN CABLE ASSY	1
XX1341	REMOTE CONTROL FEST 70/80	1
HA1165	HARNESS RIBBON CABLE	1
BA1001	“Battery, Dry AA Alkaline”	2
AN1002	“ANTENNA, T-FEEDER, FM”	1
AN1003	“ANTENNA, AM, LOOP”	1
XX1335	BUNDLE SPKR WIRE #18 20FT	3
XX1336	BUNDLE SPRK WIRE #18 40FT	2
CO1385	Plug(Matching Adap)	1
PM1295	“PLASTIC BAG 10””Lx12””Wx0.0"	1
333320-001	FESTIVAL-80 SAT SPKRS	1
SA1791	CD UNIT COVER ASY (EU)	1
332473-001	“COVER, CD UNIT”	1
SA1729	CD INTERCONNECT ASSY	1
SA1732	CD PCB-CHASSIS ASSY	1
SA1730	CD FRONT PANEL ASSY	1
332472-001	PANEL	1
332476-001	LID	1
XX1296	LEG (RUBBER PAD)	4
SC1260	Screw CSKT+	4
SA1731	CD UNIT CHASSIS ASSY	1
332475-001	CHASSIS	1
SP1088	Spacer/Rubber	3
ME1001	CD Mechanism and Screws	1
SC1288	“SCREW, 10mm x 3mm,”	1
332481-001	“SPRING CLIP,CHASSIS”	2
WA1088	“WASHER, FLAT, .300-OD;”	1
SC1288	“SCREW, 10mm x 3mm,”	5
332477-001	PUSHBUTTON	1
332478-001	INDICATOR	1
332469-001	PLASTIC FOOT	4
WA1032	Washer Plain #6 Zinc Fini	1
332530-001	“BRACKET,SMALL PCB”	1
XX1314	BAND PA	2
332529-001	“INSULATOR, PVC”	1
LB1320	“OVERLAY, ADHESIVE”	1
TP1118	Electrical Tape Therm-X 1	0.1667
SC1261	“SCREW,BND T+ (3x8)”	2
SC1292	SCREW BND T+	1
332530-001	“BRACKET,SMALL PCB”	1
XX1314	BAND PA	1
SC1261	“SCREW,BND T+ (3x8)”	2
SC1292	SCREW BND T+	1
SC1288	“SCREW, 10mm x 3mm,”	4
SC1261	“SCREW,BND T+ (3x8)”	2
SA1812	CD INDICATOR/CONNECTOR	1
SA1085	CD INDICATOR PCB	1
SW1079	Tact Switch	1
HA1180	“HARNESS, WIRE 5P”	1
CL1193	CLUSTER CD INDICATOR BD	0.2
LB1265	Bar Code Traceability Lab	1
SA1083	CD CONNECTOR PCB	1
CO1404	CONNECTOR 2mm 2A 100V	1
CO1405	CONNECTOR	1
CO1403	CONNECTOR 34-POS	1
FI1015	EMI FILTER	4
FI1016	EMI FILTER	3
CL1194	CLUSTER CD CONNECTOR BD	0.2
CP1821	“CAP., CHIP 0.1uF 50V”	1
TE1197	Terminal Prime-Time	1
LB1265	Bar Code Traceability Lab	2
332474-002	“BACK PANEL, CD”	1
PM1422	“End Pad, CD/Amp, Left”	1
PM1423	“End Pad, CD/Amp, Right”	1
PM1402	“Sleeve, CD/Amp”	1
PM1224	“Plastic Bag 14””Lx20””Wx0.0"	1
LB1319	LABEL LASER WARNING	1
LB1324	LABEL MODEL NUMBER	1
LB1322	LABEL CD/AMP SERIAL NUMB.	4
PM1473	TOP/BOTTOM COVER EUROPE	0.037
PM1475	PALLET SLEEVE AMP/CD UNIT	0.0185
SA1898	CD MAIN PCB ASSY	1
CO1365	CONNECTOR 13P 2MM 2A100V	1
CO1369	Connector 5P 2mm 2A 100V	2
CP1740	Pol. Prop. Flm Cap. 8200p	2
CP1759	Ceramic Cap. 1500pF 50V	1
CP1762	Ceramic Cap. 0.033uF 50V	2
CR1002	Ceralock 8MHz Prime-Time	1
IC1222	IC Prime-Time	1
IC1223	IC Prime-Time	1
IC1235	IC SMD REVERSIBLE MOTOR	2
IC1286	“IC,SMD HEX INVERTER”	1
PC1181	PCB CD 250x100 DBL-SIDED	1
RS2220	SMD RES 82Kohm 5% 1/10W	2
RS2187	“POT, TRIMMER, 10K-OHM”	1
RS2196	SMD RES 12Kohm 5% 1/10W	3
RS2197	SMD RES 120Kohm 5% 1/10W	2
RS2214	SMD RES 470Kohm 5% 1/10W	1
RS2216	SMD RES 510Kohm 5% 1/10W	1
RS2218	SMD RES 680Kohm 5% 1/10W	1
RS2272	RES NETWORK 47Kohm (10x)	1
XT1005	“Xtal, Osc 16.9344MHz”	1
RS2194	SMD RES 1Mohm 5% 1/10W	2
CP1866	ELECTROLYTIC CAP. 4700uF	2
CP1711	Electrolytic Cap. 4.7uF 5	1
CP1710	“CAP, ELEC; 3.3uF 50V”	1
CP1868	POLYPROPYLENE FILM CAP.	4
CP1869	POLYPROPYLENE FILM CAP.	4
CP1758	CERAMIC CAP. 0.1uF 25V	4
RS2391	SMD RES 27Kohm 5% 1/10W	1
RS2395	SMD RES 180 ohm 5% 1/10W	2
CP1873	CERAMIC CAPACITOR	1
HA1168	HARNESS FESTIVAL	1
HA1167	HARNESS FESTIVAL	1
HA1171	HARNESS FESTIVAL	1
HA1169	HARNESS FESTIVAL	1
HA1170	HARNESS FESTIVAL	1
IC1284	IC SMD QUAD 2-CH MUX	1
IC1300	IC	1
IC1301	IC SMD 5V TRACKING REG.	2
IC1302	PHOTOCOUPLER	2
CP1870	CERAMIC CAPACITOR	4
CO1370	Connectors 6P 2mm 2A 100V	2
CO1371	Connectors 8P 2mm 2A 100V	1
CO1382	CONNECTOR 4P 2MM 2A 100V	1
CO1384	Connector	1
RS2200	SMD RES 1.8Kohm 5% 1/10W	1

RS2191	SMD RES 1Kohm 5% 1/10W	4	HA1215	HARNESS ASY 6-COND 100mm	1
RS2211	SMD RES 470 ohm 5% 1/10W	8	HA1126	CONNECTORIZES WIRE	1
CP1757	CERAMIC CAP 0.01uF 50V	9	CC1064	“FERRITE CORE, TOROIDAL,”	1
TR1283	NPN XSTR 20V/300mA 400mW	4	IM1155	INSULATION SHRINK SLEEVE	0.06
TR1310	SMD NPN XSTR 50V/30mA	5	HA1216	HARNESS ASY 11-COND 100mm	1
RS2394	SMD RES 6.8Kohm 5% 1/10W	1	HA1111	“HARNESS, WIRE 11P”	1
RS2207	SMD RES 3.3Kohm 5% 1/10W	4	CC1064	“FERRITE CORE, TOROIDAL,”	1
RS2208	SMD RES 33Kohm 5% 1/10W	1	IM1155	INSULATION SHRINK SLEEVE	0.06
IC1141	SMD IC OP AMP Dual Plasti	4	RS2462	RES C/F ZERO ohm 5% 1/8W	1
CP1706	Electrolytic Cap. 1uF 50V	8	RS2195	SMD RES 10 ohm 5% 1/10W	4
CP1814	Cap Alum El 47uF 20% 35V	12	TR1281	PNP XSTR 60V/3A 25W	1
CP1708	Electrolytic Cap. 22uF 50	2	LB1265	Bar Code Traceability Lab	2
CP1697	“CAP, ELECT. 100uF, 16V”	6	TR1338	TRANSISTOR	6
CP1735	Pol. Prop. Flm Cap 390pF	4	IC1328	IC 8-BIT MICROCOMPUTER	1
CP1713	Electrolytic Cap. 0.47uF	2	CO1303	Connector Header 3-Pos 0.	1
IC1305	IC	1	CP1849	“CAP.ELECT. 33uF, 50V”	1
TR1335	PNP XSTR 30V/800mA 600mW	3	SA1800	TUNER BOARD ASY (EU)	1
TE1212	TERMINAL	5	CP1693	“CAP, ELEC; 0.22uF 50V”	1
CP1885	SMD CAP 470pF 10% 50V	3	CP1699	“CAP, ELEC; 220uF 16V”	1
CP1886	CAL ALUM EL 1000uF 20%	1	CP1701	Electrolytic Cap. 47uF 16	3
IC1310	IC VOLTAGE REGULATOR +5V	1	CP1711	Electrolytic Cap. 4.7uF 5	2
HA1172	HARNESS FESTIVAL	1	CP1741	Ceramic Cap. 0.022uF 50V	9
TR1337	SMD NPN XSTR 50V/70mA	1	CP1743	Ceramic Cap. 330pF 50V	2
RS2407	SMD RES ZERO ohm 5% 1/10W	1	CP1744	Ceramic Cap. 560pF 50V	1
RS2408	SMD RES 560 ohm 5% 1/10W	2	CP1749	Ceramic Cap. 100pF 50V	2
RS2404	SMD RES 43 ohm 5% 1/10W	2	CP1778	Cap. Ceramic 4700pF 50V 1	1
TE1210	TERMINAL	1	CP1795	“CAP, ELEC; 0.1uF 50V”	1
CP1888	SMD CAP 220pF 10% 50V	1	CR1001	Ceralock 4MHz Prime-Time	1
CP1887	SMD CAP 15pF 5% 50V	2	CR1004	Ceramic Resonator 450KHz	1
RS2190	SMD RES 100 ohm 5% 1/10W	49	CR1005	Ceramic Osc	1
TR1311	SMD PNP XSTR 50V/30mA	2	FI1008	“FILTER,AUDIO LC, VARIABLE”	2
DI1213	“DIODE, ZENER, SMD”	2	FI1009	Ceramic Filter 10.7MHz 18	3
RS2204	SMD RES 22Kohm 5% 1/10W	16	FI1005	“LC COMPOSITE, VARIABLE”	1
CO1364	Connector 12P 2mm 2A 100V	1	IC1233	IC	1
RS2209	SMD RES 330Kohm 5% 1/10W	2	IC1237	IC	1
RS2199	SMD RES 150Kohm 5% 1/10W	2	IC1267	IC	1
RS2198	SMD RES 15Kohm 5% 1/10W	6	IC1268	IC	1
CP1891	CAPACITOR 680pF 10% 50V	1	IF1001	“IF BLOCK 450KHZ, CERAMIC”	1
RS2393	SMD RES 680 ohm 5% 1/10W	1	MI1178	Discri(Type KM)10.7MHz	1
RS2411	SMD RES 390 ohm 5% 1/10W	3	MI1177	Discri(Type 7KM) 10.7MHz	1
CP1880	“CAP, 3pF, 50V”	3	PC1180	PCB CD Tuner	1
RS2193	SMD RES 100Kohm 5% 1/10W	9	RS2189	“POT, TRIMMER, 50K OHM”	1
RS2213	SMD RES 47Kohm 5% 1/10W	10	RS2222	RES C/F MINI 100 ohm 5%	3
RS2405	SMD RES 1.5Kohm 5% 1/10W	2	RS2225	RES C/F MINI 100Kohm 5%	4
CP1889	SMD CAP 100pF 5% 50V	1	RS2226	RES C/F MIN 1Mohm 5% 1/4W	1
CP1890	CAPACITOR 47pF 5% 50V SMD	1	RS2230	RES C/F MINI 15Kohm 5%	1
RS2203	SMD RES 220 ohm 5% 1/10W	3	RS2233	RES C/F MINI 22 ohm 5%	1
IC1285	IC SMD DIFFERENTIAL 4-CH	1	RS2239	RES C/F MINI 330 ohm 5%	2
RS2219	SMD RES 8.2Kohm 5% 1/10W	1	RS2253	RES C/F MINI 5.6Kohm 5%	1
CP1853	“CAP ALUM EL 2,200uF 20%”	2	RS2275	RES C/F MINI 180 ohm 5%	1
IC1313	IC QUAD LOW-PWR LINE	1	RS2277	RES C/F MINI 270Kohm 5%	1
RS2212	SMD RES 4.7Kohm 5% 1/10W	11	RS2280	RES C/F MINI 82 ohm 5%	1
CP1821	“CAP., CHIP 0.1uF 50V”	21	RS2291	RES C/F MINI 27Kohm 5%	2
CP1699	“CAP, ELEC; 220uF 16V”	2	RS2332	RES C/F MINI 390 ohm 5%	4
RS2192	SMD RES 10Kohm 5% 1/10W	20	TR1276	NPN XSTR 25V/50mA 300MHz	2
DI1206	Switching Diode 40V 0.3W	5	TR1278	PNP XSTR 50V/150mA 300mW	1
MI1219	INDUCTOR	1	TR1279	N-CH FET 50V/6.5mA 300mW	1
CP1763	Ceramic Cap. 0.047uF 50V	3	XT1002	Xtal.OSC 4332KHz Prm-time	1
RS2245	RES C/F MINI 39Kohm 5%	1	XT1003	XTAL.OSC 4500KHz	1
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	4	TR1268	NPN XSTR 50V/30mA 300mW	1
TR1341	NPN XSTR 30V/800mA 600mW	6	TR1269	PNP XSTR 50V/30mA 300mW	1
DI1201	Diode Rectifier 1 A 400V	10	RS2374	RES C/F MINI 12Kohm 5%	1
TR1334	SMD PNP XSTR 50V/50mA	1	CP1769	Semiconductor Cap. 0.047u	6

CP1707	Electrolytic Cap. 10uF 50	7
CP1710	“CAP, ELEC; 3.3uF 50V”	1
HA1173	“HARNESS, WIRE 13P”	1
RS2229	RES C/F MINI 1.5Kohm 5%	2
RS2318	RES C/F MINI 6.8Kohm 5%	3
RS2248	RES C/F MINI 470 ohm 5%	1
TR1273	NPN XSTR 50V/100mA 300mW	1
RS2420	TRIM-POT 200Kohm	1
RS2223	RES C/F MINI 1Kohm 5%	10
RF1001	RF Block Prime-Time	1
TE1203	Terminal	1
CP1747	Ceramic Cap. 5pF 50V	1
CP1751	Ceramic Cap. 82pF 50V	1
CP1709	Electrolytic Cap. 2.2uF 5	1
RS2240	RES C/F MINI 3.3Kohm 5%	2
RS2231	RES C/F MINI 18Kohm 5%	1
RS2241	RES C/F MINI 33Kohm 5%	1
RS2236	RES C/F MINI 220Kohm 5%	4
DI1205	Switching Diode 90V 0.3W	5
TR1272	PNP XSTR 50V/100mA 300mW	4
CP1706	Electrolytic Cap. 1uF 50V	5
TU1002	TUNER FM	1
HA1193	HARNESS ASSY	1
RS2249	RES C/F MINI 4.7Kohm 5%	5
IC1230	“IC, RADIO DATA SYSTEM”	1
RS2224	RES C/F MIN 10Kohm 5%	9
RS2250	RES C/F MINI 47Kohm 5%	1
CP1748	Ceramic Cap. 7pF 50V	1
BR1543	STEEL SHIELD PLATE	1
LB1265	Bar Code Traceability Lab	2
CP1745	Ceramic Cap. 15pF 50V	5
CP1697	“CAP, ELECT. 100uF, 16V”	1
CP1698	Electrolytic Cap. 22uF 16	1
CP1742	Ceramic Cap. 220pF 50V	5
TR1277	NPN XSTR 20V/500mA 500mW	5
RS2234	RES C/F MINI 2.2Kohm 5%	8
WI1702	JUMPER WIRE 24 AWG BARE	48
RS2256	RES C/F MINI 68Kohm 5%	1
LB1317	LABEL JULIAN DATE CODE	2
SA1804	TOP UNIT ASY (‘80-EU)	1
XX1296	LEG (RUBBER PAD)	4
SC1268	“Screw, BND T+(3x12)”	6
SA1745	INTERCONNECT ASY	1
XX1314	BAND PA	1
SC1278	Screw BND T+	1
SA1747	FUNCTION/VIDEO ASY	1
332499-001	SHIELD PLATE	1
SC1260	Screw CSKT+	4
332500-001	SHIELD PLATE	1
SC1268	“Screw, BND T+(3x12)”	2
SA1755	PUSH BUTTOM ASSY FOR	1
SC1269	“Screw,BND T+”	1
332492-001	PUSHBUTTON	1
SA1749	CABINET SUB-ASY	1
332491-001	PUSHBUTTON	1
332490-001	PUSHBUTTON	1
SC1261	“SCREW,BND T+ (3x8)”	4
SA1751	PLASTIC CAB ASY	1
SC1261	“SCREW,BND T+ (3x8)”	3
332502-001	FITTING	1
SC1278	Screw BND T+	2
332497-001	BUTTON IR	1
332503-001	“HOLDER,SLIDER-POWERSWITCH”	1
BR1546	SHIELD PLATE	1
BR1547	SHIELD PLATE	1
TP1123	TAPE DRY-ADHESIVE	0.8333
332484-001	“HOUSING, DISPLAY, PAINTED”	1
332484-XXX	“HOUSING, PLASTIC, MOLDED”	1
LS1065	RESIN POLYSTYRENE BLACK	0.25
332487-001	“PLATE, PVC”	1
BR1548	SHIELD PLATE	1
TP1118	Electrical Tape Therm-X 1	0.1667
332486-001	“BASE,CONTROL PANEL”	1
332485-002	“PANEL, FESTIVAL-80"	1
332485-XXX	”ASY, DISPLAY COVER, FEST."	1
333256-001	“COVER, DISPLAY, CONTROL”	1
LS1068	RESIN DENKA ABS	0.033
333257-001	“COVER, CONTROL PANEL, TOP”	1
LS1065	RESIN POLYSTYRENE BLACK	0.0661
332504-001	HOLDER	1
332494-001	PUSH BUTTON	1
332496-001	“ORNAMENT, TOP UNIT”	1
332498-001	ORNAMENT	1
332489-001	ROTARY KNOB	1
332488-002	“DISPLAY WINDOW, FEST’80"	1
332495-001	”INDICATOR, TOP UNIT"	1
BR1496	Spring	1
332532-001	“HOLDER,SHIELD PLATE,RIGHT”	1
332505-001	“HOLDER,SHIELD PLATE,LEFT”	1
BR1539	STEEL SHIELD PLATE	1
XX1337	INSULATOR PVC	1
SP1096	SPACER PLASTIC LOCKING	4
332483-001	“BASE, PLASTIC, PAINTED”	1
332483-XXX	“BASE, PLASTIC, MOLDED”	1
LS1065	RESIN POLYSTYRENE BLACK	0.525
332507-001	SPACER	1
332506-001	“SLIDER,POWER SWITCH”	1
BR1540	STEEL SHIELD PLATE	1
XX1338	INSULATOR PVC	1
SA1811	CLUSTER ASSY FUNCTION/	1
CL1188	“CLUSTER, TOP UNIT, FEST.”	1
SA1089	VIDEO PCB	1
CO1376	RCA Pin Jack 1P	5
CP1697	“CAP, ELECT. 100uF, 16V”	2
CP1708	Electrolytic Cap. 22uF 50	3
IC1225	IC Prime-Time	1
RS2257	RES C/F MINI 75 ohm 5%	5
CP1750	Ceramic Cap. 68pF 50V	2
WI1702	JUMPER WIRE 24 AWG BARE	9
HA1213	HARNESS ASY 7-COND 200mm	1
HA1197	HARNESS ASSY	1
CC1064	“FERRITE CORE, TOROIDAL,”	1
IM1155	INSULATION SHRINK SLEEVE	0.06
SA1090	VOLUME CONTROL PCB	1
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	1
HA1130	CONNECTORIZES WIRE	1
RS2399	POTENTIOMETER W/GREEN LED	1
SA1091	IR SENSOR PCB	1
HA1068	“HARNESS, WIRE 3P”	1
IC1255	IR Sensor	1
CP1697	“CAP, ELECT. 100uF, 16V”	1
SA1093	POWER INDICATOR PCB	1
HA1115	“HARNESS, WIRE 4P”	1
LE1037	LED 3mm 5mcd	4
WI1702	JUMPER WIRE 24 AWG BARE	1
SA1748	FUNCTION PCB ASY	1

CO1363	Connector 11P 2mm 2A 100V	1
CO1365	CONNECTOR 13P 2MM 2A100V	1
CO1371	Connectors 8P 2mm 2A 100V	1
CO1374	Miniture Jack LR-SW	1
CO1377	RCA Pin Jack 2P	4
IC1239	IC	1
CP1697	“CAP, ELECT. 100uF, 16V”	3
CP1701	Electrolytic Cap. 47uF 16	13
IC1226	IC	4
IC1238	IC	2
RS2225	RES C/F MINI 100Kohm 5%	11
RS2239	RES C/F MINI 330 ohm 5%	8
CP1702	Electrolytic Cap. 470uF 1	2
CP1707	Electrolytic Cap. 10uF 50	4
CP1708	Electrolytic Cap. 22uF 50	2
CP1711	Electrolytic Cap. 4.7uF 5	3
CP1724	Metallized Flm Cap 0.022u	2
CP1725	Metallized Flm Cap. 0.22u	4
CP1726	Metallized Flm Cap 0.033u	2
CP1727	Metallized Flm Cap 0.047u	5
CP1728	Metallized Flm Cap. 0.68u	1
CP1729	Metallized Flm Cap 0.082u	2
CP1731	Pol. Prop. Flm Cap. 1000p	1
CP1736	Pol. Prop. Flm Cap. 4700p	1
CP1738	Pol. Prop. Flm Cap. 5600p	2
CP1739	Pol. Prop. Flm Cap. 680pF	2
IC1246	IC	1
RS2241	RES C/F MINI 33Kohm 5%	2
RS2242	RES C/F MINI 330Kohm 5%	1
RS2245	RES C/F MINI 39Kohm 5%	2
CP1882	POLYPROPELENE FILM	1
RS2226	RES C/F MIN 1Mohm 5% 1/4W	1
RS2230	RES C/F MINI 15Kohm 5%	9
RS2231	RES C/F MINI 18Kohm 5%	2
RS2232	RES C/F MINI 20Kohm 5%	2
RS2233	RES C/F MINI 22 ohm 5%	2
RS2235	RES C/F MINI 22Kohm 5%	5
RS2249	RES C/F MINI 4.7Kohm 5%	5
RS2251	RES C/F MINI 4.7Mohm 5%	1
RS2256	RES C/F MINI 68Kohm 5%	2
RS2259	RES C/F MINI 7.5Kohm 5%	2
IC1229	IC Prime-Time	1
IC1228	IC Prime-Time	1
XT1009	Xtal	1
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	14
CP1737	Pol. Prop. Flm Cap. 560pF	3
CP1733	Pol. Prop. Flm Cap 220pF	2
RS2224	RES C/F MIN 10Kohm 5%	14
RS2223	RES C/F MINI 1Kohm 5%	9
WI1702	JUMPER WIRE 24 AWG BARE	72
RS2250	RES C/F MINI 47Kohm 5%	2
RS2246	RES C/F MINI 43Kohm 5%	1
LB1265	Bar Code Traceability Lab	2
SA1805	“PRE-AMP BD, FEST-80 EU”	1
CP1811	Super Capacitor 1F	1
CO1369	Connector 5P 2mm 2A 100V	1
CO1370	Connectors 6P 2mm 2A 100V	1
CO1375	Jack 1P	2
CO1382	CONNECTOR 4P 2MM 2A 100V	1
CO1383	CONNECTOR HEADER 7-PIN	1
CO1389	CONNECTOR 14P 2mm 2A 100V	1
CO1390	CONNECTOR 8P	1
CP1700	Electrolytic Cap. 2200uF	3
CP1702	Electrolytic Cap. 470uF 1	2
CP1732	Pol. Prop. Flm Cap. 1500p	2
CP1733	Pol. Prop. Flm Cap 220pF	9
DI1192	“Zener Diode 0.4W (T/R,2"")"	1
DI1204	Zener Diode 0.4W	2
FH1007	Fuse Holder	2
HA1109	CONNECTORIZES WIRE 8P	1
HA1112	CONNECTORIZES WIRE 13P	1
IC1232	IC Voltage Regulator +6VD	1
IC1234	IC Voltage Regulator -6VD	1
IC1236	IC	1
IC1245	IC ELECTRICAL VOLUME	1
IC1248	IC	1
IC1254	IC SMD OCTAL-D-TYPE LATCH	1
IC1259	IC SMD 32KBYTE CMOS STAT.	1
IC1262	IC	1
IC1265	IC LOW PWR CLOCK/CALENDAR	1
IC1269	IC	2
IC1270	IC SMD DUAL 2-to-4 LINE	1
IC1277	“IC, EEPROM, 256x8, CMOS”	1
IC1283	IC SMD DUAL 2-INPUT AND	1
RS2226	RES C/F MIN 1Mohm 5% 1/4W	3
RS2233	RES C/F MINI 22 ohm 5%	3
RS2247	RES C/F MINI 47 ohm 5%	2
RS2260	RES C/F MINI 8.2Kohm 5%	2
RS2261	RES C/F 1Kohm 5% 1/3W	1
SW1078	Push Switch 1P TV3 Prime-	1
TR1272	PNP XSTR 50V/100mA 300mW	1
TR1281	PNP XSTR 60V/3A 25W	1
TR1304	NPN XSTR 60V/3A 25W	1
XT1006	“XTAL, 32.768KHz”	1
XT1011	“XTAL, 15MHZ”	1
CO1402	CONNECTOR 34-POS	1
CO1367	Connector 4P 2mm 2A 100V	2
CO1388	CONNECTOR 10P 2mm 2A 100V	1
CO1363	Connector 11P 2mm 2A 100V	1
CP1697	“CAP, ELECT. 100uF, 16V”	3
CP1863	ELECTROLYTIC CAP.	2
CP1701	Electrolytic Cap. 47uF 16	22
CP1706	Electrolytic Cap. 1uF 50V	3
CP1707	Electrolytic Cap. 10uF 50	2
CP1722	Metallized Flm Cap. 0.01u	20
CP1815	Cap Poly Film 15nF 5% 50V	2
CP1817	Cap Poly Film 68nF 5% 50V	2
CP1777	CAPACITOR CERAMIC 22pF 50	2
DI1196	Zener Diode 0.4W	3
DI1201	Diode Rectifier 1 A 400V	10
HA1166	HARNESS ASSY	1
IC1226	IC	4
IC1241	Photocoupler	1
IC1307	IC VOLTAGE REGULATOR +5V	1
RS2237	RES C/F MINI 270 ohm 5%	1
RS2238	RES C/F MINI 2.7Kohm 5%	8
RS2242	RES C/F MINI 330Kohm 5%	6
RS2315	RES FUSE 4.7 ohm 2% 1/4W	1
RS2244	RES C/F MINI 3.9Kohm 5%	1
RS2341	RES C/F 100 ohm 5% 1/3W	2
TR1268	NPN XSTR 50V/30mA 300mW	3
TR1269	PNP XSTR 50V/30mA 300mW	3
TR1283	NPN XSTR 20V/300mA 400mW	12
TR1290	PNP XSTR 50V/200mA 300mW	1
RS2290	RES C/F 180 ohm 5% 1/3W	2
CP1731	Pol. Prop. Flm Cap. 1000p	3

IC1244	IC	1
RS2389	RES C/F 4.7Kohm 5% 1/3W	1
RS2222	RES C/F MINI 100 ohm 5%	1
FI1013	FILTER EMI	1
FI1014	FILTER EMI	6
FI1017	EMI FILTER 4-CIRCUIT	3
FI1018	“FILTER, EMI”	7
MI1209	TRANSFORMER TOP UNIT (EU)	1
BR1542	STEEL SHIELD PLATE	1
IC1313	IC QUAD LOW-PWR LINE	1
FS1090	FUSE SLOW BLOW 500mA 250V	1
IC1219	IC Prime-Time	1
CP1878	CAPACITOR 10pF 50V	1
FI1011	FILTER EMI	19
CO1358	Connector 2.5A25OV	1
CO1374	Miniture Jack LR-SW	1
CP1711	Electrolytic Cap. 4.7uF 5	1
CP1843	“CAP.CERAM, 4700pF, 250V”	2
DI1205	Switching Diode 90V 0.3W	9
DI1206	Switching Diode 40V 0.3W	4
RS2212	SMD RES 4.7Kohm 5% 1/10W	2
TR1341	NPN XSTR 30V/800mA 600mW	1
TR1291	NPN XSTR 50V/200mA 300mW	2
CP1887	SMD CAP 15pF 5% 50V	2
FI1020	EMI FILTER	1
CP1911	SMD CAP 0.1uF 10% 25V	16
HS1155	“HEATSINK, AMPLIFIER”	3
SC1262	“SCREW, BND + (M3x10)”	3
RS2211	SMD RES 470 ohm 5% 1/10W	2
SC1271	Screw Fpt+	4
332501-001	“BRACKET, MTG,XFORMER”	1
IC1320	IC EPROM 128K x 8 DIP32	1
CO1418	CONNECTOR IC SOCKET DIP32	1
CL1236	CLUSTER BD FEST. 60/70/80	1
SP1102	INSULATOR RUBBER	1
CC1065	FERRITE CHIP BEAD	26
RS2250	RES C/F MINI 47Kohm 5%	4
RS2225	RES C/F MINI 100Kohm 5%	22
RS2239	RES C/F MINI 330 ohm 5%	13
CP1725	Metallized Flm Cap. 0.22u	2
HA1210	HARNESS ASY 5-COND 200mm	1
HA1120	CONNECTORIZES WIRE	1
CC1064	“FERRITE CORE, TOROIDAL,”	1
IM1155	INSULATION SHRINK SLEEVE	0.06
HA1214	HARNESS ASY 11-COND 160mm	1
HA1166	HARNESS ASSY	1
CC1064	“FERRITE CORE, TOROIDAL,”	1
IM1155	INSULATION SHRINK SLEEVE	0.06
RS2231	RES C/F MINI 18Kohm 5%	2
RS2224	RES C/F MIN 10Kohm 5%	15
RS2291	RES C/F MINI 27Kohm 5%	3
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	2
CP1719	Metalized Flm Cap 0.039uF	3
LB1265	Bar Code Traceability Lab	2
CP1891	CAPACITOR 680pF 10% 50V	2
RS2223	RES C/F MINI 1Kohm 5%	25
RS2240	RES C/F MINI 3.3Kohm 5%	2
RS2476	RES C/F MINI 3Kohm 5%	1
RS2249	RES C/F MINI 4.7Kohm 5%	3
RS2235	RES C/F MINI 22Kohm 5%	6
RS1711	SMD RES 220 ohm 5% 1/8W	1
CP1757	CERAMIC CAP 0.01uF 50V	1
RS1376	RES C/F MINI 910 ohm 5%	1
332482-004	“HOUSING, TOP UNIT”	1
LB1331	“LABEL ""MASK"", FESTIVAL"	1
PM1400	“Foam Pad, Top Unit, Left”	1
PM1399	“Foam Pad, Top Unit, Right”	1
PM1421	Top Unit Sleeve	1
LB1317	LABEL JULIAN DATE CODE	1
LB1318	“LABEL BARCODE, FESTIVAL”	1
LB1326	LABEL MODEL No./ DOLBY	1
SA1826	“DISPLAY PCB ASSY, EU”	1
CP1799	“CAP, Chip 100 pF 50V”	3
CP1812	“Cap, Chip 12pF 50V”	2
CP1822	CAP. CHIP 0.33uF 50V	28
DS1001	Display VFD Prime-Time	1
IC1250	IC 32-BIT LED DRIVER	1
IC1252	IC 40-BIT VFD GRID ANODE	3
IC1253	IC SMD 20-BIT VFD ANODE/	1
IC1254	IC SMD OCTAL-D-TYPE LATCH	1
IC1276	IC SMD INVERTER HIGH	1
PC1236	“PC,DISPLAY BD, 68PIN-PLCC”	1
RS2193	SMD RES 100Kohm 5% 1/10W	8
RS2219	SMD RES 8.2Kohm 5% 1/10W	1
TH1018	TRIAC 400V 3A	1
TR1302	SMD NPN XSTR 50V/1A 500mW	6
XT1008	“Xtal, Osc 24MHz”	1
TR1310	SMD NPN XSTR 50V/30mA	1
TR1311	SMD PNP XSTR 50V/30mA	1
IC1259	IC SMD 32KBYTE CMOS STAT.	1
IC1263	SMD IC 5V VOLTAGE REG.	6
CP1707	Electrolytic Cap. 10uF 50	1
CP1849	“CAP.ELECT. 33uF, 50V”	2
IC1314	IC MICOM OTP 16MHz 0-70C	1
SW1085	SWITCH	23
LE1040	LED GREEN	15
CP1821	“CAP., CHIP 0.1uF 50V”	10
RS2213	SMD RES 47Kohm 5% 1/10W	1
RS1292	SMD RES 10Kohm 5% 1/10W	8
LE1041	LED GREEN	16
RS2430	SMD RES 82 ohm 5% 1/10W	6
RS2211	SMD RES 470 ohm 5% 1/10W	7
CC1065	FERRITE CHIP BEAD	20
MI1220	INDUCTOR	1
HA1211	HARNESS ASY 14-COND 160mm	1
HA1113	“HARNESS, WIRE 14P”	1
CC1064	“FERRITE CORE, TOROIDAL,”	1
IM1155	INSULATION SHRINK SLEEVE	0.06
HA1212	HARNESS ASY 10-COND 160mm	1
HA1110	HARNESS ASY	1
CC1064	“FERRITE CORE, TOROIDAL,”	1
IM1155	INSULATION SHRINK SLEEVE	0.06
LB1265	Bar Code Traceability Lab	2
RS2206	SMD RES 270 ohm 5% 1/10W	22
RS2408	SMD RES 560 ohm 5% 1/10W	4
PM1473	TOP/BOTTOM COVER EUROPE	0.0444
PM1474	PALLET SLEEVE TOP UNIT	0.0222
333321-002	SUBWOOFER SPEAKER SYSTEM	1

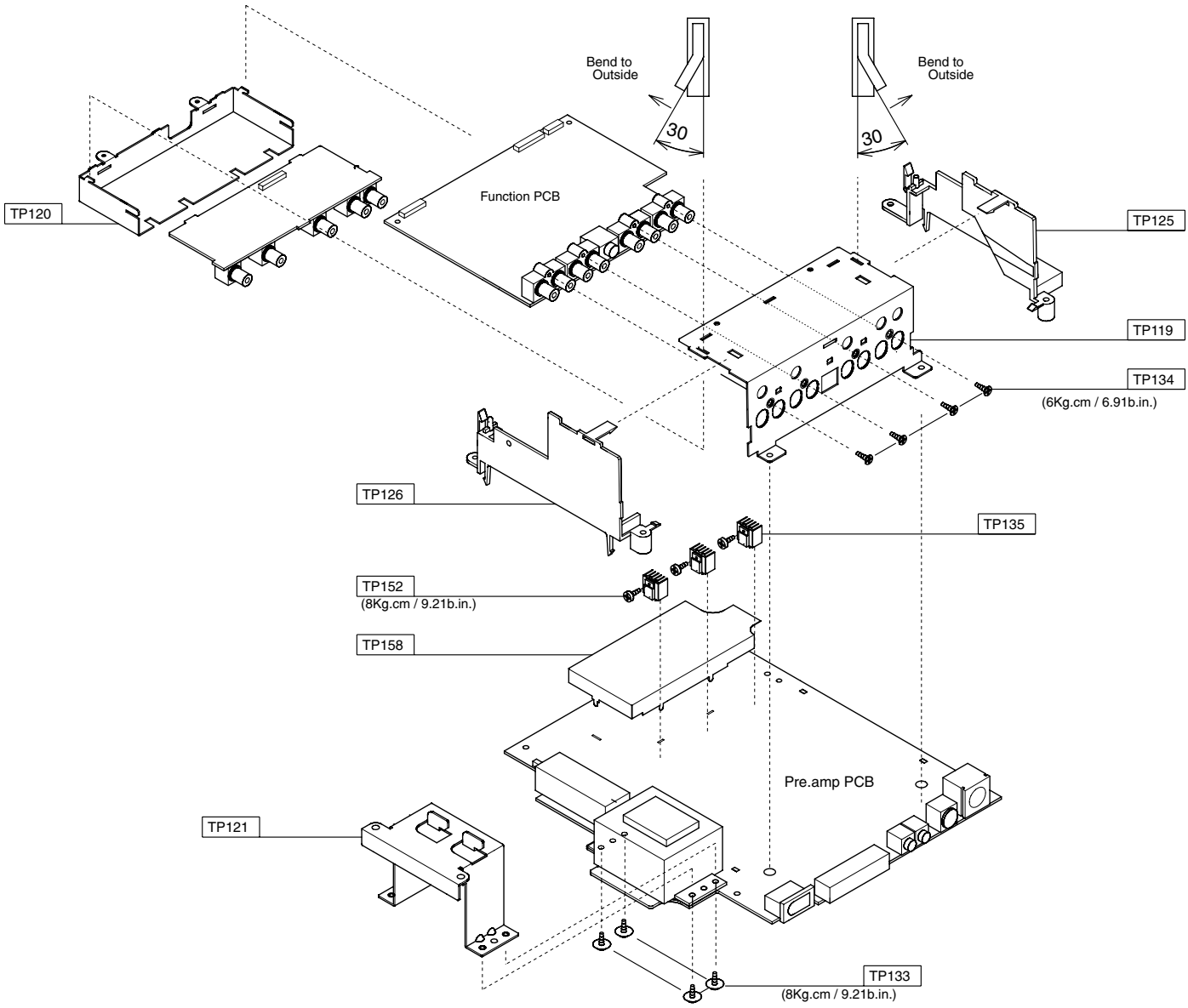
Festival 80 SUBWOOFER ASSEMBLY PARTS LIST

PART NUMBER	DESCRIPTION	QTY
AM0000120	"AMP,SUBWFR,FESTIVAL80 US"	1
SA1766	"SUBWFR, PACKED UNIT,"	1
SA1736	CENTER & FRONT SUB-ASSY	1
SA1780	CLUSTER ASSY FRONT/REAR	1
SA1738	REAR (CENTER) PCB	1
CP1814	Cap Alum El 47uF 20% 35V	2
CP1750	Ceramic Cap. 68pF 50V	2
CP1731	Pol. Prop. Flm Cap. 1000p	2
CP1861	CAP CERAMIC 6pF 50V	4
CP1695	"CAP, ELECT, 470uF, 6.3V"	2
CP1749	Ceramic Cap. 100pF 50V	2
CP1892	CAP AL EL 470uF 20% 50V	4
CP1817	Cap Poly Film 68nF 5% 50V	2
CP1706	Electrolytic Cap. 1uF 50V	2
CP1697	"CAP, ELECT. 100uF, 16V"	1
CP1810	"CAP. ELECT. 10,000uF, 50V"	2
CO1368	Connector 3P 3.96mm 7A 25	1
HA1182	HARNESS	1
HA1183	HARNESS	1
DI1205	Switching Diode 90V 0.3W	4
DI1189	Bridge Diode 200V 4A	1
DI1192	"Zener Diode 0.4W (T/R,2"")"	1
FH1007	Fuse Holder	4
TR1286	NPN XSTR 90V/50mA 300mW	8
TR1291	NPN XSTR 50V/200mA 300mW	4
TR1279	N-CH FET 50V/6.5mA 300mW	2
TR1280	PNP XSTR 120V/100mA 300mW	6
TR1288	PNP XSTR 100V/50mA 900mW	2
TR1285	NPN XSTR 100V/50mA 900mW	2
TR1284	NPN XSTR 120V/100mA 300mW	3
TR1289	NPN XSTR 100V/1A 900mW	4
TR1287	PNP XSTR 100V/1A 900mW	4
TR1326	NPN XSTR 140V/10A 100W	2
TR1290	PNP XSTR 50V/200mA 300mW	2
RS2267	RES C/F 330 ohm 5% 1/3W	2
RS2326	RES C/F 220 ohm 5% 1/3W	4
RS2262	RES C/F 1.5Kohm 5% 1/3W	4
RS2379	RES C/F 5.6Kohm 5% 1/3W	2
RS2237	RES C/F MINI 270 ohm 5%	2
RS2176	RES FUSE 560 ohm 5% 1/4W	8
RS2390	RES FUSE 560 ohm 2% 1/4W	2
RS2172	RES FUSE 100 ohm 5% 1/4W	4
RS2263	RES C/F 15Kohm 5% 1/3W	4
RS2171	RES FUSE 10 ohm 5% 1/4W	6
RS2234	RES C/F MINI 2.2Kohm 5%	7
RS2376	RES C/F 47 ohm 5% 1/3W	4
RS2167	RES FUSE 100 ohm 2% 1/4W	6
RS2238	RES C/F MINI 2.7Kohm 5%	2
RS2229	RES C/F MINI 1.5Kohm 5%	6
RS2168	RES FUSE 15 ohm 2% 1/4W	4
RS2169	RES FUSE 2.2 ohm 5% 1/4W	4
RS2271	RES M/0 F/R 0.22ohm 5% 3W	4
RS2240	RES C/F MINI 3.3Kohm 5%	4
RS2328	RES M/O F/R 15 ohm 5% 2W	2
RS2235	RES C/F MINI 22Kohm 5%	1
RS2249	RES C/F MINI 4.7Kohm 5%	4
RS2224	RES C/F MIN 10Kohm 5%	1
RS2225	RES C/F MINI 100Kohm 5%	1
RS2243	RES C/F MINI 3.3Mohm 5%	1
RS2256	RES C/F MINI 68Kohm 5%	1
RS2241	RES C/F MINI 33Kohm 5%	1
TE1197	Terminal Prime-Time	1
RS2289	POT. TRIM. 1K-OHM	2
TR1319	PNP XSTR 140V/10A 100W	2
CP1717	"CAP, MTL.FILM, 0.1uF, 50V"	7
RS2268	RES C/F 33Kohm 5% 1/3W	4
FS1074	Fuse Slow Blow 6.3A 250V	2
RS2252	RES C/F MINI 560 ohm 5%	4
CP1707	Electrolytic Cap. 10uF 50	6
WI1702	JUMPER WIRE 24 AWG BARE	77
RS2418	RES FUSE 330 ohm 2% 1/4W	2
RS2264	RES C/F 1.6Kohm 5% 1/3W	1
RS2477	RES C/F 1.1Kohm 5% 1/3W	1
SA1739	FRONT (L/R) PCB ASSEMBLY	1
CP1814	Cap Alum El 47uF 20% 35V	2
CP1750	Ceramic Cap. 68pF 50V	2
CP1731	Pol. Prop. Flm Cap. 1000p	2
CP1861	CAP CERAMIC 6pF 50V	4
CP1695	"CAP, ELECT, 470uF, 6.3V"	2
CP1749	Ceramic Cap. 100pF 50V	2
CP1892	CAP AL EL 470uF 20% 50V	4
CP1817	Cap Poly Film 68nF 5% 50V	2
CP1706	Electrolytic Cap. 1uF 50V	2
CP1697	"CAP, ELECT. 100uF, 16V"	1
CP1810	"CAP. ELECT. 10,000uF, 50V"	2
CO1368	Connector 3P 3.96mm 7A 25	1
HA1182	HARNESS	1
HA1183	HARNESS	1
DI1205	Switching Diode 90V 0.3W	4
DI1192	"Zener Diode 0.4W (T/R,2"")"	1
DI1189	Bridge Diode 200V 4A	1
FH1007	Fuse Holder	4
TR1286	NPN XSTR 90V/50mA 300mW	8
TR1291	NPN XSTR 50V/200mA 300mW	4
TR1279	N-CH FET 50V/6.5mA 300mW	2
TR1280	PNP XSTR 120V/100mA 300mW	6
TR1288	PNP XSTR 100V/50mA 900mW	2
TR1285	NPN XSTR 100V/50mA 900mW	2
TR1284	NPN XSTR 120V/100mA 300mW	3
TR1289	NPN XSTR 100V/1A 900mW	4
TR1287	PNP XSTR 100V/1A 900mW	4
TR1326	NPN XSTR 140V/10A 100W	2
TR1319	PNP XSTR 140V/10A 100W	2
TR1290	PNP XSTR 50V/200mA 300mW	2
RS2267	RES C/F 330 ohm 5% 1/3W	2
RS2326	RES C/F 220 ohm 5% 1/3W	4
RS2262	RES C/F 1.5Kohm 5% 1/3W	4
RS2379	RES C/F 5.6Kohm 5% 1/3W	2
RS2176	RES FUSE 560 ohm 5% 1/4W	8
RS2264	RES C/F 1.6Kohm 5% 1/3W	2
RS2390	RES FUSE 560 ohm 2% 1/4W	2
RS2172	RES FUSE 100 ohm 5% 1/4W	4
RS2263	RES C/F 15Kohm 5% 1/3W	4
RS2171	RES FUSE 10 ohm 5% 1/4W	6
RS2234	RES C/F MINI 2.2Kohm 5%	7
RS2238	RES C/F MINI 2.7Kohm 5%	2
RS2229	RES C/F MINI 1.5Kohm 5%	6
RS2376	RES C/F 47 ohm 5% 1/3W	4
RS2167	RES FUSE 100 ohm 2% 1/4W	6
RS2168	RES FUSE 15 ohm 2% 1/4W	4
RS2169	RES FUSE 2.2 ohm 5% 1/4W	4

RS2271	RES M/0 F/R 0.22ohm 5% 3W	4
RS2240	RES C/F MINI 3.3Kohm 5%	4
RS2328	RES M/O F/R 15 ohm 5% 2W	2
RS2235	RES C/F MINI 22Kohm 5%	1
RS2249	RES C/F MINI 4.7Kohm 5%	4
RS2243	RES C/F MINI 3.3Mohm 5%	1
RS2256	RES C/F MINI 68Kohm 5%	1
RS2241	RES C/F MINI 33Kohm 5%	1
RS2224	RES C/F MIN 10Kohm 5%	1
RS2225	RES C/F MINI 100Kohm 5%	1
TE1197	Terminal Prime-Time	1
RS2289	POT. TRIM. 1K-OHM	2
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	7
RS2268	RES C/F 33Kohm 5% 1/3W	4
FS1074	Fuse Slow Blow 6.3A 250V	2
CP1707	Electrolytic Cap. 10uF 50	6
RS2418	RES FUSE 330 ohm 2% 1/4W	2
RS2252	RES C/F MINI 560 ohm 5%	2
RS2417	RES C/F 560 OHM 5% 1/3W	2
WI1702	JUMPER WIRE 24 AWG BARE	69
RS2237	RES C/F MINI 270 ohm 5%	2
CL1228	“CLUSTER, SUB-C & L/R FEST”	1
TP1124	“ELECT TAPE 0.250"" WIDE"	0.345
TP1125	“ELECT TAPE 0.250"" WIDE"	0.22
TP1126	“ELECT TAPE 0.250"" WIDE"	0.345
TP1127	“ELECT TAPE 0.250"" WIDE"	0.22
LB1265	Bar Code Traceability Lab	2
XX1328	BUSHING	1
HS1161	HEATSINK FOR FESTIVAL	1
HS1162	HEATSINK FOR FESTIVAL	2
BR1521	METAL FITTING	2
SC1294	“SCREW, RND, W+”	12
SC1295	“SCREW, BND+ (M4x20)”	6
SC1261	“SCREW,BND T+ (3x8)”	20
PM1366	Gasket for BASS20/16	1
LB1336	LABEL FUSE REPL (FRENCH)	2
WA1075	Washer Hel.Sprng Lck #8 N	6
PM1331	Plastic Bag Pink Antistat	1
SP1090	SILPAD TO-218 K-10 W/ Adh	9
SA1737	SUBWOOFER & FILTER	1
SA1781	CLUSTER ASSY SUBWFR/TERM	1
SA1740	SUBWOOFER PCB ASSEMBLY	1
CP1814	Cap Alum El 47uF 20% 35V	1
CP1750	Ceramic Cap. 68pF 50V	1
CP1731	Pol. Prop. Flm Cap. 1000p	1
CP1861	CAP CERAMIC 6pF 50V	2
CP1695	“CAP, ELECT, 470uF, 6.3V”	1
CP1749	Ceramic Cap. 100pF 50V	2
CP1892	CAP AL EL 470uF 20% 50V	2
CP1817	Cap Poly Film 68nF 5% 50V	1
CP1706	Electrolytic Cap. 1uF 50V	2
CP1697	“CAP, ELECT. 100uF, 16V”	1
CP1810	“CAP. ELECT. 10,000uF, 50V”	2
CO1368	Connector 3P 3.96mm 7A 25	1
HA1184	HARNESS	1
HA1185	HARNESS	1
DI1205	Switching Diode 90V 0.3W	3
DI1192	“Zener Diode 0.4W (T/R,2"")"	1
DI1189	Bridge Diode 200V 4A	1
FH1007	Fuse Holder	4
TR1286	NPN XSTR 90V/50mA 300mW	4
TR1291	NPN XSTR 50V/200mA 300mW	3
TR1279	N-CH FET 50V/6.5mA 300mW	1
TR1280	PNP XSTR 120V/100mA 300mW	3
TR1288	PNP XSTR 100V/50mA 900mW	1
TR1285	NPN XSTR 100V/50mA 900mW	1
TR1284	NPN XSTR 120V/100mA 300mW	2
TR1289	NPN XSTR 100V/1A 900mW	1
TR1287	PNP XSTR 100V/1A 900mW	1
TR1320	PNP Xstr 180V 20W	1
TR1321	NPN Xstr 180V 20W	1
TR1326	NPN XSTR 140V/10A 100W	2
TR1319	PNP XSTR 140V/10A 100W	2
TR1290	PNP XSTR 50V/200mA 300mW	2
RS2267	RES C/F 330 ohm 5% 1/3W	1
RS2326	RES C/F 220 ohm 5% 1/3W	2
RS2414	RES C/F 1.2Kohm 5% 1/3W	1
RS2172	RES FUSE 100 ohm 5% 1/4W	2
RS2263	RES C/F 15Kohm 5% 1/3W	2
RS2171	RES FUSE 10 ohm 5% 1/4W	4
RS2234	RES C/F MINI 2.2Kohm 5%	5
RS2238	RES C/F MINI 2.7Kohm 5%	1
RS2376	RES C/F 47 ohm 5% 1/3W	2
RS2167	RES FUSE 100 ohm 2% 1/4W	3
RS2168	RES FUSE 15 ohm 2% 1/4W	2
RS2169	RES FUSE 2.2 ohm 5% 1/4W	2
RS2321	RES FUSE 4.7 ohm 5% 1/4W	4
RS2271	RES M/0 F/R 0.22ohm 5% 3W	4
RS2240	RES C/F MINI 3.3Kohm 5%	2
RS2249	RES C/F MINI 4.7Kohm 5%	4
RS2235	RES C/F MINI 22Kohm 5%	1
RS2328	RES M/O F/R 15 ohm 5% 2W	1
RS2224	RES C/F MIN 10Kohm 5%	1
RS2225	RES C/F MINI 100Kohm 5%	1
RS2243	RES C/F MINI 3.3Mohm 5%	1
RS2256	RES C/F MINI 68Kohm 5%	1
RS2241	RES C/F MINI 33Kohm 5%	1
RS2236	RES C/F MINI 220Kohm 5%	1
TE1197	Terminal Prime-Time	1
RS2289	POT. TRIM. 1K-OHM	1
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	6
RS2268	RES C/F 33Kohm 5% 1/3W	2
FS1074	Fuse Slow Blow 6.3A 250V	2
CP1707	Electrolytic Cap. 10uF 50	4
RS2390	RES FUSE 560 ohm 2% 1/4W	2
RS2229	RES C/F MINI 1.5Kohm 5%	4
RS2176	RES FUSE 560 ohm 5% 1/4W	4
RS2262	RES C/F 1.5Kohm 5% 1/3W	2
RS2416	RES C/F 680 ohm 5% 1/3W	2
WI1702	JUMPER WIRE 24 AWG BARE	49
RS2237	RES C/F MINI 270 ohm 5%	1
SA1741	FILTER-TERMINAL PCB	1
CP1814	Cap Alum El 47uF 20% 35V	14
CP1750	Ceramic Cap. 68pF 50V	9
CP1717	“CAP, MTL.FILM, 0.1uF, 50V”	13
CP1893	CAP POLYPROP 1800pF 5%	4
CP1894	CAP POLY 0.39uF 5% 50V	1
CP1895	CAP POLY 0.47uF 5% 50V	1
CP1896	CAP AL EL 2200uF 20% 35V	2
CP1722	Metallized Flm Cap. 0.01u	10
CP1731	Pol. Prop. Flm Cap. 1000p	4
CP1843	“CAP.CERAM, 4700pF, 250V”	2
CP1706	Electrolytic Cap. 1uF 50V	4
CP1882	POLYPROPELENE FILM	4
CO1367	Connector 4P 2mm 2A 100V	3
CO1401	CONNECTOR 4-POS	2

CO1392	Connector DIN 8-Pos	1
CO1366	Connector 2P 7.92mm 7A 25	1
CO1373	Connector 2.5A 250V	1
CO1368	Connector 3P 3.96mm 7A 25	1
DI1205	Switching Diode 90V 0.3W	4
DI1192	“Zener Diode 0.4W (T/R,2"")"	1
DI1201	Diode Rectifier 1 A 400V	5
LE1032	Led Bicolor Red/Green 5mm	1
FH1007	Fuse Holder	6
IC1226	IC	10
IC1291	IC	1
IC1311	IC VOLTAGE REGULATOR	1
TR1287	PNP XSTR 100V/1A 900mW	2
TR1291	NPN XSTR 50V/200mA 300mW	4
TR1290	PNP XSTR 50V/200mA 300mW	1
RS2239	RES C/F MINI 330 ohm 5%	9
RS2241	RES C/F MINI 33Kohm 5%	7
RS2291	RES C/F MINI 27Kohm 5%	4
RS2223	RES C/F MINI 1Kohm 5%	8
RS2230	RES C/F MINI 15Kohm 5%	4
RS2240	RES C/F MINI 3.3Kohm 5%	5
RS2260	RES C/F MINI 8.2Kohm 5%	8
RS2225	RES C/F MINI 100Kohm 5%	5
RS2374	RES C/F MINI 12Kohm 5%	1
RS2249	RES C/F MINI 4.7Kohm 5%	3
RS2378	RES C/F MINI 27 ohm 5%	1
RS2250	RES C/F MINI 47Kohm 5%	1
RS2375	RES C/F MINI 68 ohm 5%	1
RS2276	RES C/F MINI 220 ohm 5%	2
RS2236	RES C/F MINI 220Kohm 5%	4
RS2229	RES C/F MINI 1.5Kohm 5%	2
FS1092	FUSE 8A 125V	1
RE1022	Relay	1
TE1208	TERMINAL PUSH	1
TE1209	“TERMINAL, PUSH”	1
RS1794	POTENTIOMETER 50Kohm 20%	1
RS2318	RES C/F MINI 6.8Kohm 5%	4
TE1197	Terminal Prime-Time	1
FS1090	FUSE SLOW BLOW 500mA 250V	2
CP1697	“CAP, ELECT. 100uF, 16V”	1
RS2224	RES C/F MIN 10Kohm 5%	5
RS2234	RES C/F MINI 2.2Kohm 5%	6
RS2253	RES C/F MINI 5.6Kohm 5%	1
WI1702	JUMPER WIRE 24 AWG BARE	72
RS2256	RES C/F MINI 68Kohm 5%	2
CL1230	“CLUSTER, SUBWFR, FEST-80"	1
SP1097	INSULATOR PVC	1
IM1079	”Tubing Shrinkable 1/2"" 10"	0.1667
TP1124	“ELECT TAPE 0.250"" WIDE"	0.021
TP1125	“ELECT TAPE 0.250"" WIDE"	0.021
TP1126	“ELECT TAPE 0.250"" WIDE"	0.021
TP1127	“ELECT TAPE 0.250"" WIDE"	0.131
TP1128	“ELECT TAPE 0.250"" WIDE"	0.152
TP1129	“ELECT TAPE 0.250"" WIDE"	0.021
LB1265	Bar Code Traceability Lab	2
HS1160	HEATSINK FOR FESTIVAL	1
XX1327	CLOSE UP MOLD FOR	1
BR1522	METAL FITTING	1
BR1523	METAL FITTING	1
XX1259	Knob Black Custom	1
BR1533	“ORNAMENT, PVC”	1
HS1162	HEATSINK FOR FESTIVAL	1
SC1294	“SCREW, RND, W+”	12
SC1295	“SCREW, BND+ (M4x20)”	3
SC1261	“SCREW,BND T+ (3x8)”	12
SC1296	“SCREW, BND T+”	7
LB1333	LABEL FESTIVAL 80 (US)	1
PM1366	Gasket for BASS20/16	1
SP1098	“SPONGE, POLYURETHANE”	1
LB1336	LABEL FUSE REPL (FRENCH)	2
WA1075	Washer Hel.Sprng Lck #8 N	3
PM1331	Plastic Bag Pink Antistat	1
SP1090	SILPAD TO-218 K-10 W/ Adh	5
MS1065	“Nylon Cable Tie 3""L Nat."	5
SC1297	“SCREW, RND,W+ (4.1x16)”	4
SC1298	“SCREW, BND+ (M4x12)”	4
PM1476	STYROFOAM TRAY FESTI. 80	2
PM1367	Pallet Cover	0.0667
WA1075	Washer Hel.Sprng Lck #8 N	4
SA1940	XMER FESTIVAL-80US ASSY	1
MI1207	TRANSFORMER SUBWFR (US)	1
TP1124	“ELECT TAPE 0.250"" WIDE"	0.22
TP1126	“ELECT TAPE 0.250"" WIDE"	0.22
TP1127	“ELECT TAPE 0.250"" WIDE"	0.22
TP1128	“ELECT TAPE 0.250"" WIDE"	0.22
TP1129	“ELECT TAPE 0.250"" WIDE"	0.22

MECHANICAL ASSEMBLY FESTIVAL-60-US TOP-UNIT-201-01



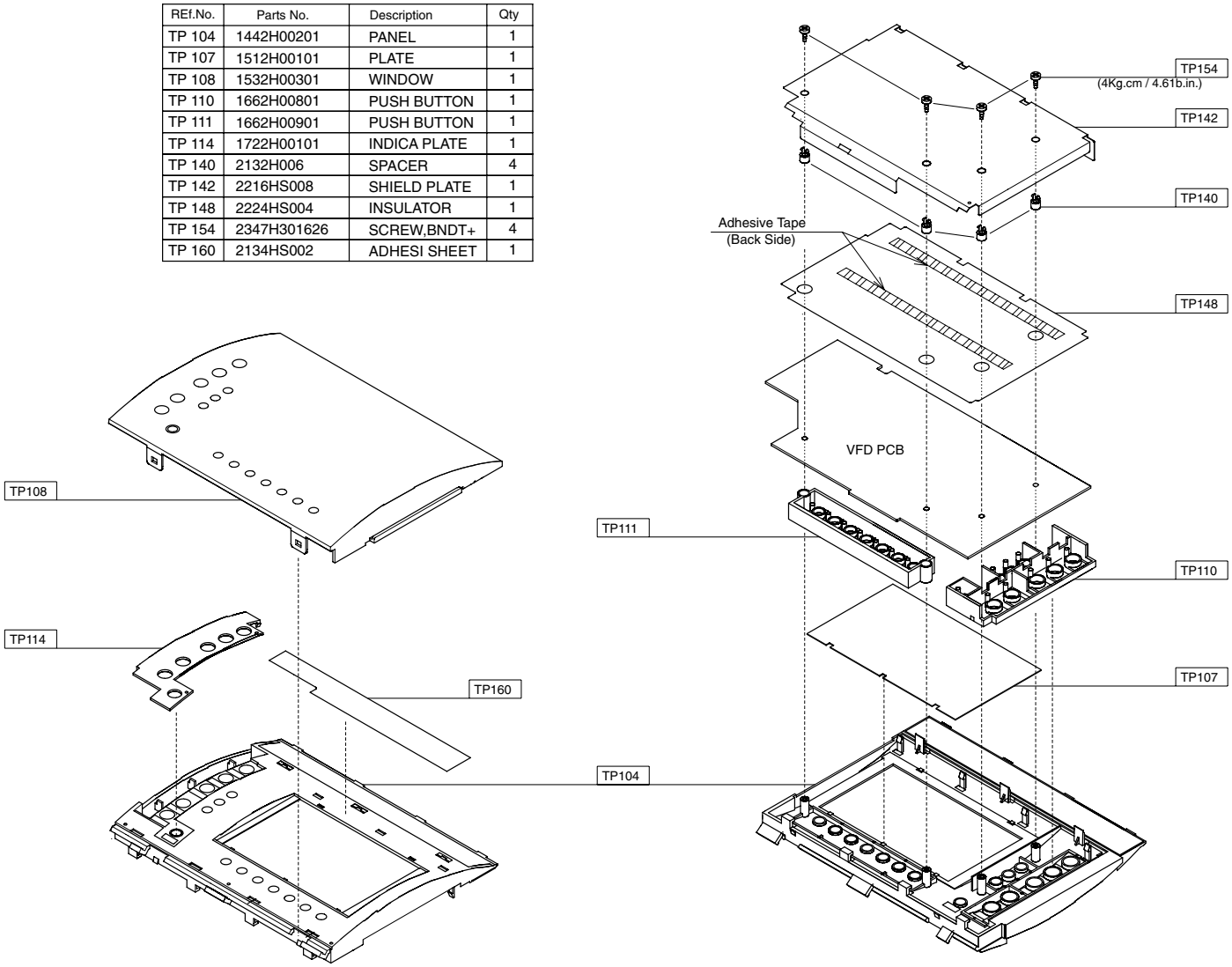
REf.No.	Parts No.	Description	Qty
TP 119	2216H001	SHIELD PLATE	1
TP 120	2216H002	SHIELD PLATE	1
TP 121	2219H010	METAL FITTNG	1
TP 125	2224H003	HOLDER	1
TP 126	2224H004	HOLDER	1
TP 133	(2592H30082)	(SCREW,FPT+)	4
TP 134	2343H300826	SCREW,CSKT+	4
TP 135	2222H005	HEAT SINK	3
TP 152	2327H301029	SCREW,BND+	3
TP 158	2216HSO13	SHIELD PLATE	1

FESTIVAL-60-US
MECHANICAL ASSEMBLY
TOP-UNIT-201-01

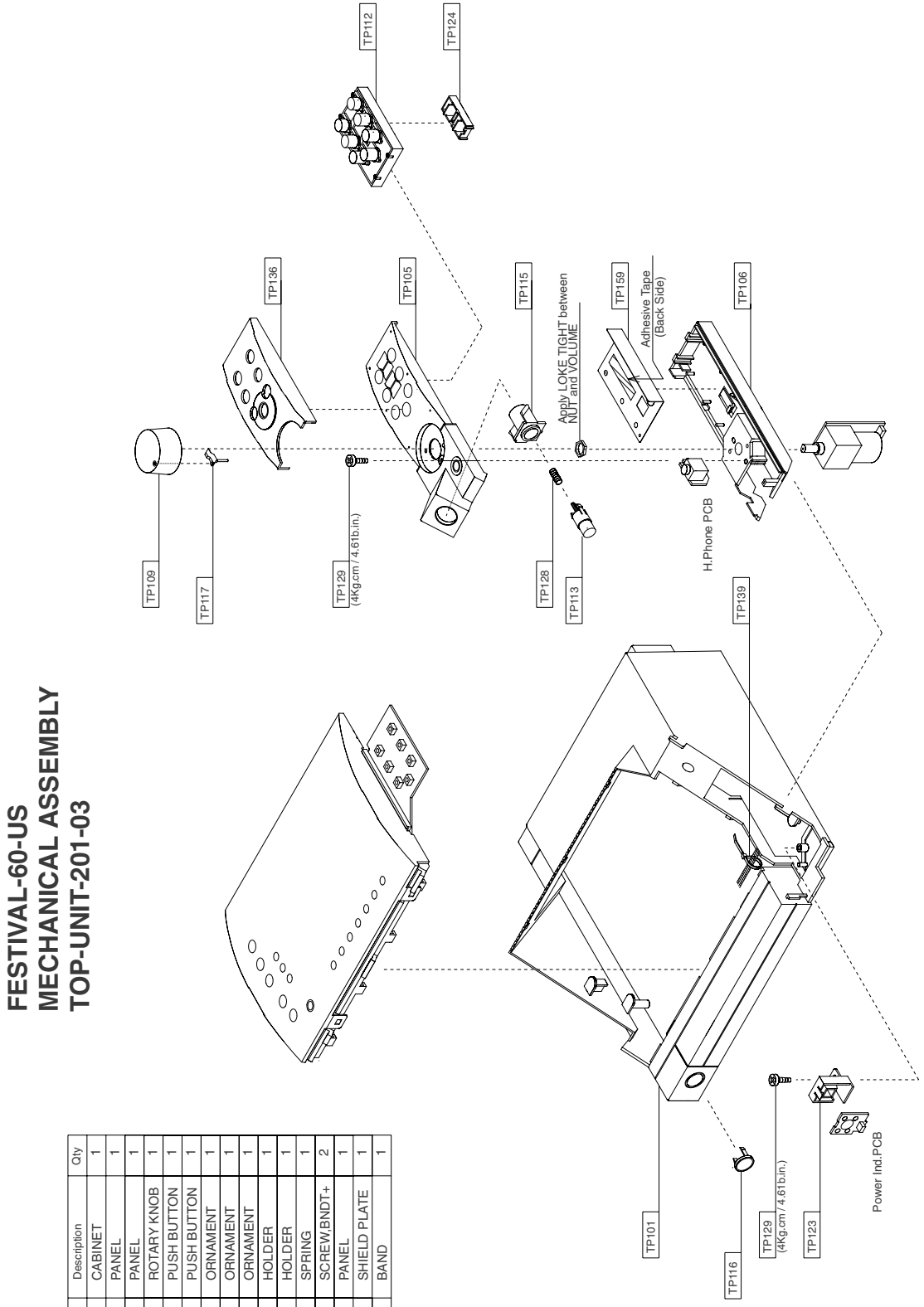
MECHANICAL ASSEMBLY FESTIVAL-60-US TOP-UNIT-201-02

FESTIVAL-60-US
MECHANICAL ASSEMBLY
TOP-UNIT-201-02

REf.No.	Parts No.	Description	Qty
TP 104	1442H00201	PANEL	1
TP 107	1512H00101	PLATE	1
TP 108	1532H00301	WINDOW	1
TP 110	1662H00801	PUSH BUTTON	1
TP 111	1662H00901	PUSH BUTTON	1
TP 114	1722H00101	INDICA PLATE	1
TP 140	2132H006	SPACER	4
TP 142	2216HS008	SHIELD PLATE	1
TP 148	2224HS004	INSULATOR	1
TP 154	2347H301626	SCREW,BNDT+	4
TP 160	2134HS002	ADHESI SHEET	1

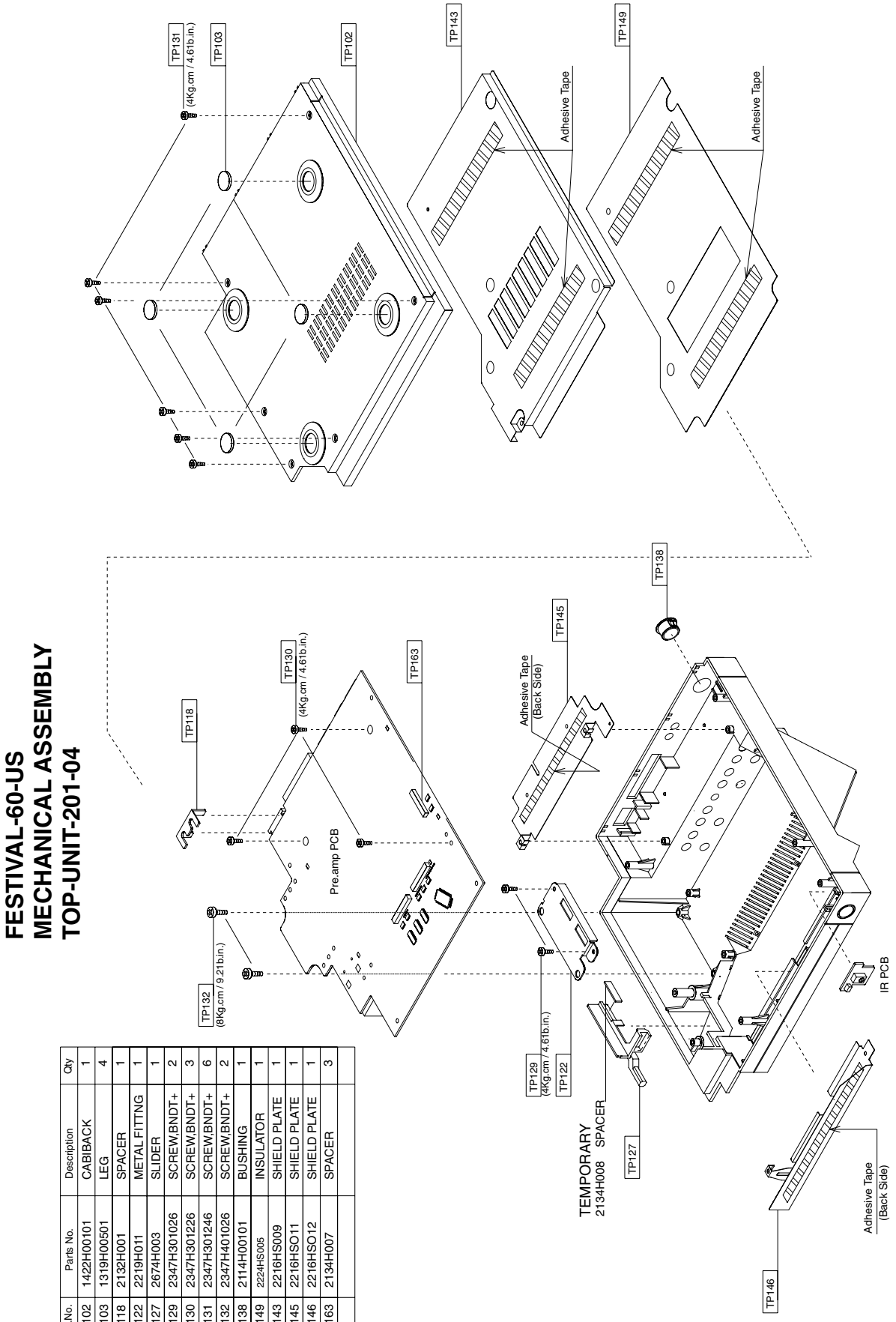


MECHANICAL ASSEMBLY FESTIVAL-60-US TOP-UNIT-201-03



REf.No.	Parts No.	Description	Qty
TP 101	1412H00101	CABINET	1
TP 105	1442H00301	PANEL	1
TP 106	1442H00401	PANEL	1
TP 109	1632H00301	ROTARY KNOB	1
TP 112	1662H01001	PUSH BUTTON	1
TP 113	1662H01201	PUSH BUTTON	1
TP 115	1742H00101	ORNAMENT	1
TP 116	1742H00201	ORNAMENT	1
TP 117	1742H00301	ORNAMENT	1
TP 123	2240H001	HOLDER	1
TP 124	2240H002	HOLDER	1
TP 128	2651H001	SPRING	1
TP 129	2347H301026	SCREW,BNDT+	2
TP 136	1442H00701	PANEL	1
TP 159	2216HSO14	SHIELD PLATE	1
TP 139	2144H001	BAND	1

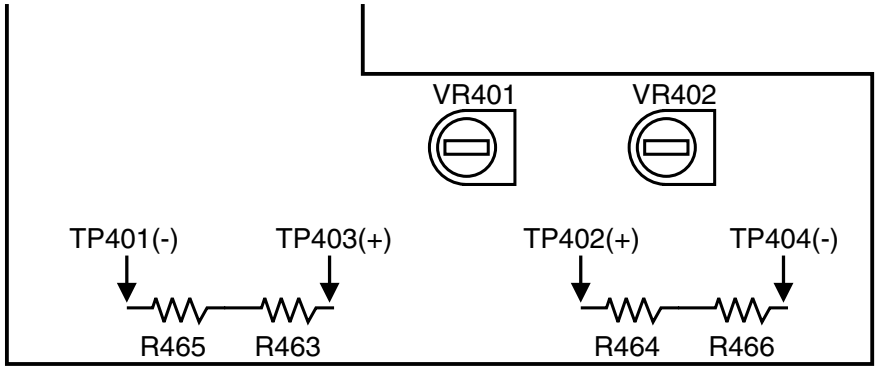
MECHANICAL ASSEMBLY FESTIVAL-60-US TOP-UNIT-201-04



REf.No.	Parts No.	Description	Qty
TP 102	1422H00101	CABIBACK	1
TP 103	1319H00501	LEG	4
TP 118	2132H001	SPACER	1
TP 122	2219H011	METAL FITTNG	1
TP 127	2674H003	SLIDER	1
TP 129	2347H301026	SCREW,BNDT+	2
TP 130	2347H301226	SCREW,BNDT+	3
TP 131	2347H301246	SCREW,BNDT+	6
TP 132	2347H401026	SCREW,BNDT+	2
TP 138	2114H00101	BUSHING	1
TP 149	2224HS005	INSULATOR	1
TP 143	2216HS009	SHIELD PLATE	1
TP 145	2216HSO11	SHIELD PLATE	1
TP 146	2216HSO12	SHIELD PLATE	1
TP 163	2134H007	SPACER	3

ADJUSTMENT Festival 60/80 US (AMP UNIT)

Adjustment Item	Idling Current Adjustment
Condition	Set the Function selector to the “CD” position Set the Volume control to minimum Make the adjustment at a room temperature of 77 F(25 C)
Equipment	DC DIGITAL VOLT METER
Connection	Connect the Digital Volt Meter to TP401(-), TP403(+) Connect the Digital Volt Meter to TP404(-), TP402(+)



Adjustment Point	VR401(L channel) VR402(R channel)
Adjustment Method	Adjust the VR401 so that the Digital Volt Meter read 33±0.5mV. Adjust the VR402 so that the Digital Volt Meter read 33±0.5mV. After the above adjustment, leave the unit with its power on for longer than 3 minutes and then repeat the same adjustment.

US AM ADJUSTMENT Festival 60/80 (TUNER UNIT)

Adjustment Item	AM Adjustment
Condition	Set the Function selector to the “AM” position.
Equipment	DIGITAL VOLT METER AM SIGNAL GENERATOR and LOOP ANTENNA 2 CH VOLT METER OSCILLOSCOPE AM ANTENNA COIL See Fig.1 and Fig.4 on page XX
Connection and Set Up	INPUT: AM ANTENNA TERMINAL Input 600kHz(400Hz, 30% modulation), 282uV/m(49dBuV/m) ot the Loop Antenna of a Unit. OUTPUT: P203(-) and JP204(+) for Frequency Range adjustment. See Fig.1 and Fig.4 on page XX
Adjustment Point	1. MW OSC of RF215 (Orange core) for Frequency Range. 2. T231 for IF(Inter Frequency). 3. MW ANT. Coil of RF215 (Black core) for Tracking.
Adjustment Method	1. **Frequency Range** - Set the tuning frequency of UNIT to 600kHz. Adjust RF215 (Orange core) so that leading of DC VOLT METER reads 1.8 0. 2. **IF** - Adjust T231 so that output level reads maximum. 3. **Tracking** - Adjust RF215 (Black core) so that output level reads maximum.

US FM ADJUSTMENT Festival 60/80 (TUNER UNIT)

Adjustment Item	FM Adjustment
Equipment	DIGITAL VOLT METER FM SIGNAL GENERATOR and DUMMY ANTENNA (Fig.3) FM STEREO SIGNAL GENERATOR 2CH VOLT METER OSCILLOSCOPE 2ch DISTORTION METER See Fig.2 and Fig.5 on page XX
Connection and Set Up	INPUT: FM ANTENNA TERMINAL Input 97.9MHz, 65.2dBf, 1kHz, 75kHz deviation for Discriminator adjustment. Input 1kHz, L+R=46%, R-L=46%, Pirot 9% from STEREO SIGNAL GENERATOR through FM S.S.G with 97.9MHz, 65.2dBf, 75kHz deviation. OUTPUT: JP226(-) and JP225(+) for Discriminator adjustment. Lch/Rch output (LCN251) Multiplex adjustment. See Fig.5 on page XX
(A)	Load Type SSG (W/75ohms Dummy): 60dBuV (SG)+65.2dBf (ANTENNA) Open Type SSG (W/75ohms Dummy): 66dBuV EMF (SG)+65.2dBf (ANTENNA)

...*US FM ADJUSTMENT Festival 60/80 (TUNER UNIT)* CONTINUED

Adjustment Point	1. Discriminator (Fig.2) 2. VR251 for Multiplex adjustment. 3. VR231 for Signal Indicator Sensitivity adjustment.
Adjustment Method	1. Discriminator (Fig.2) Adjust T232 so that leading of DIGITAL VOLT METER reads 0V 30mV. Adjust T233 and TU201 so that distortion level reads minimum. Adjust above both adjustment several times. 2. Multiplex (Fig.5) Adjust VR251 so that Separation Ratio “Lch to Rch” and “Rch to Lch” reads maximum and even level. 3. Signal Indicator Sensitivity (Fig.2) (A) Input signal 97.9kHz, 35.2dBf, 1kHz, 75kHz Deviation. Adjust VR231 so that Signal (TUN.) Indicator just barely turns on. Input signal 97.9kHz, 34.2dBf, 1kHz, 75kHz Deviation. Confirm Signal (TUN.) Indicator turns off.

US RDS ADJUSTMENT Festival 60/80 (TUNER UNIT)

Adjustment Item	RDS Adjustment
Condition	Set the Function selector to the “FM” position.
Equipment	DIGITAL VOLT METER FM SIGNAL GENERATOR and DUMMY ANTENNA (Fig.3) RDS MODULATOR 2 CHANNEL VOLT METER OSCILLOSCOPE 2 CHANNEL DISTORTION METER See Fig.6 on page XX
Connection and Set Up	INPUT: FM ANTENNA TERMINAL Input 97.9MHz, 35.2dBf, 1kHz, 75kHz deviation and set PS, AF or PTY. (A) Load Type SSG (W/75ohms Dummy): 60dBuV (SG)=65.2dBf (ANTENNA), Open Type SSG (W/75ohms Dummy): 66dBuV EMF (SG)+65.2dBf (ANTENNA)
Confirmation Method	1. PS: A Program Service Name. AF: A List of Alternative Frequency. PTY: A Program Type.

European MW (AM) ADJUSTMENT Festival 60/80 (TUNER UNIT)

Adjustment Item	MW (AM) Adjustment
Condition	Set the Function selector to the “MW” position.
Equipment	DIGITAL VOLT METER AM SIGNAL GENERATOR and LOOP ANTENNA 2 CHANNEL VOLT METER OSCILLOSCOPE AM ANTENA COIL See Fig.1 and Fig.4 on page XX
Connection and Set Up	**INPUT:** AM ANTENNA TERMINAL For OSC and IF: Input 603kHz(400Hz, 30% modulation), 282uV/m(49dBuV/m) to the Loop Antenna of a Unit. For Tracking: Input 999kHz(400Hz, 30% moidulation), 159uv/m(44dBuV/m) to the Loop Antenna of a Unit. **OUTPUT:** JP203(-) and JP204(+) for Frequency Range adjustment. Lch/Rch output(LCN251) Inter Frequency and Tracking adjustment. See Fig.1 and Fig.4 on page XX
Adjustment Point	**1.** MW OSC of RF215 (Black core) for Frequency Range. **2.** T231 for IF(Inter Frenquency). **3.** MW ANT. Coil of RF215 (Yellow core) for Tracking.
Adjustment Method	**1. Frequency Range** Set the tuning frequency of unit to 603Hz. Adjust RF215 (Black core) so that leading of DC VOLT METER reads 1.9 0.1V **2. IF** Set the tuning frequency of unit to 999kHz. Adjust T231 so that output level reads maximum. **3. Trackng** Adjust RF215 (Yellow core) so that output level reads maximum.

European LW (AM) ADJUSTMENT Festival 60/80 (TUNER UNIT)

Adjustment Item	LW (AM) Adjustment
Condition	Set the Function selector to the “LW” position.
Equipment	DIGITAL VOLT METER AM SIGNAL GENERATOR and LOOP ANTENNA 2 CHANNEL VOLT METER OSCILLOSCOPE AM ANTENA COIL See Fig.1 and Fig.4 on page XX

...European LW (AM) ADJUSTMENT Festival 60/80 (TUNER UNIT) CONTINUED

Connection and Set Up	**INPUT:** AM ANTENNA TERMINAL For OSC: Input 150kHz(400Hz, 30% modulation), 501uV/m(54dBuV/m) to the Loop Antenna of a Unit. For Tracking: Input 210kHz(400Hz, 30% modulation), 501uv/m(54dBuV/m) to the Loop Antenna of a Unit.
Connection and Set Up	**OUTPUIT:** JP203(-) and JP204(+) for Frequency Range adjustment. See Fig.1 and Fig.4 on page XX
Adjustment Point	**1.** LW OSC of RF215 (Black core) for Frequency Range. **2.** LW ANT. Coil of RF215 (Red core) for Tracking.
Adjustment Method	**1. Frequency Range** Set the tuning frequency of UNIT to 150kHz. Adjust RF215 (Orange core) so that leading of DC VOLT METER reads 2.3 0.1V **2. Tracking** Set the tuning frequency of UNIT to 210kHz. Adjust RF215 (Red core) so that output level reads maximum.

European FM ADJUSTMENT Festival 60/80 (TUNER UNIT)

Adjustment	**FM Adjustment**
Condition	Set the Function selector to the “FM” position.
Equipment	DIGITAL VOLT METER FM SIGNAL GENERATOR and DUMMY ANTENNA (Fig.3) FM STEREO SIGNAL GENERATOR 2 CHANNEL VOLT METER OSCILLOSCOPE 2 CHANNEL DISTORTION METER See Fig.2 and Fig.5 on page XX
Conncetion and Set Up	**INPUT:** FM ANTENNA TERMINAL Input 97.9MHz, 65.2dBf, 1kHz, 75kHz deviation for Discriminator adjustment. Input 1kHz, L+R=46%, R-L=46%, Pirot 9% from STEREO SIGNAL GENERATOR Through FM S.S.G with 97.9MHz, 65.2dBf, 75kHz deviation. **OUTPUT JP226(-)** and **JP225(+)** for Discriminator adjustment. Lch/Rch output (LCN251) Multiplex adjustment. See Fig.5 on page XX Load Type SSG (W/75ohms Dummy): 60duV (SG)=65.2dBf (ANTENNA) Open Type SSG (W/75ohms Dummy): 60duV EMF (SG)=65.2dBf (ANTENNA)
Adjustment Point	**1.** Discriminator T232, T233 and IFT TU201 for Discriminator adjustment. **2.** VR251 for Multiplex adjustment. **3.** VR231 for Signal Indicator Sensitivity Adjustment.

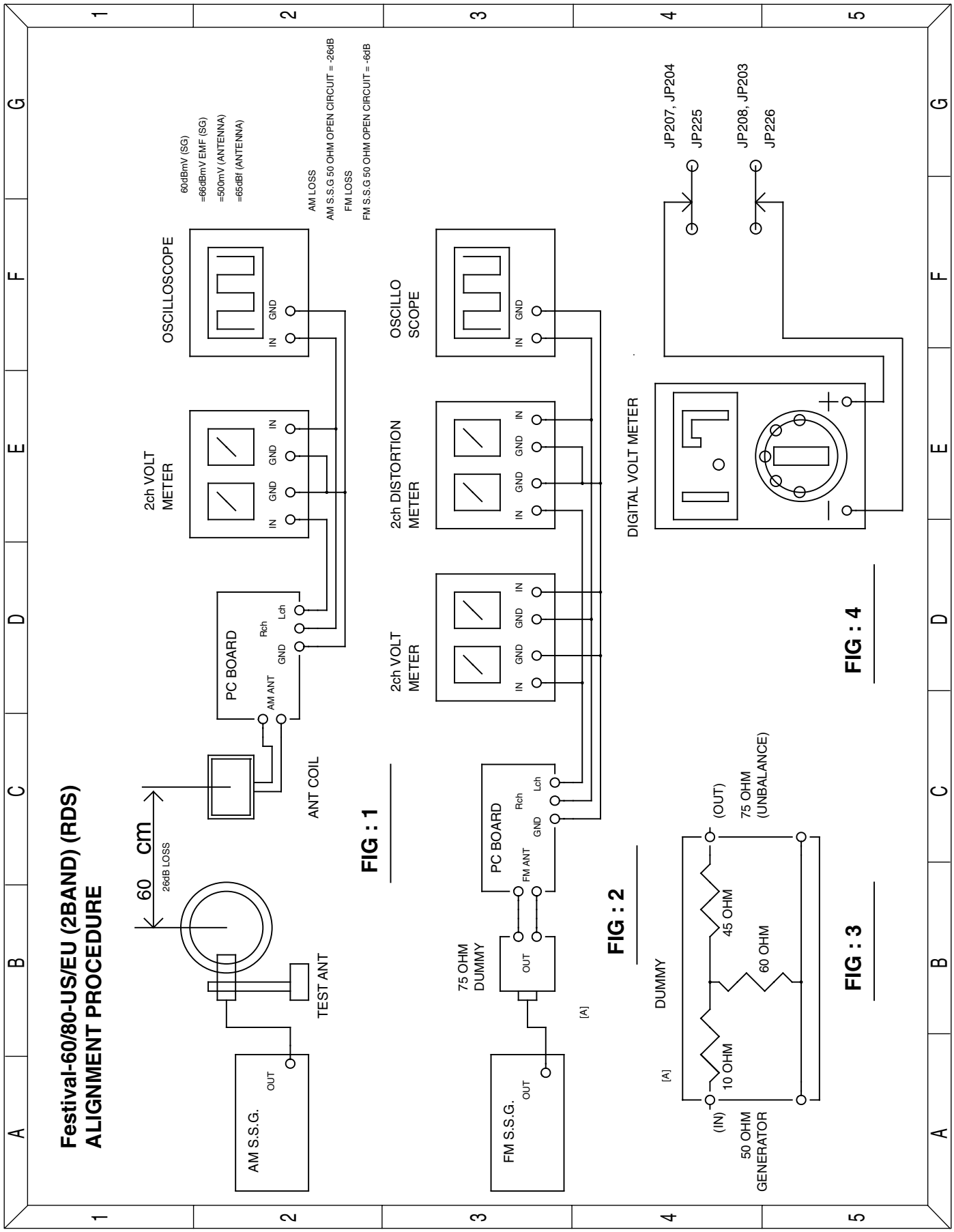
...European FM ADJUSTMENT Festival 60/80 (TUNER UNIT) CONTINUED

Adjustment Method	1. Discriminator (Fig.2) Adjust T232 so thaqt leading of DIGITAL VOLT METER reads 0V 30mV. Adjust T233 and TU201 so that distortion level reads minimum. Adjust above both adjustment several times. 2. Multiplex (Fig.5) Adjust VR251 so that Separation Ratio “Lch to Rch” and “Rch to Lch” reads maximum and even level. 3. Signal Indicator Sensitivity (Fig.2) Input signal 97.9kHz, 35.2dBf, 1kHz, 75kHz Deviation. Adjust VR231 so that Signal (TUN.) Indicator just barely turns on. Input signal 97.9kHz, 34.2dBf, 1kHz, 75kHz Deviation. Confirm Signal (TUN.) Indicator turns off.

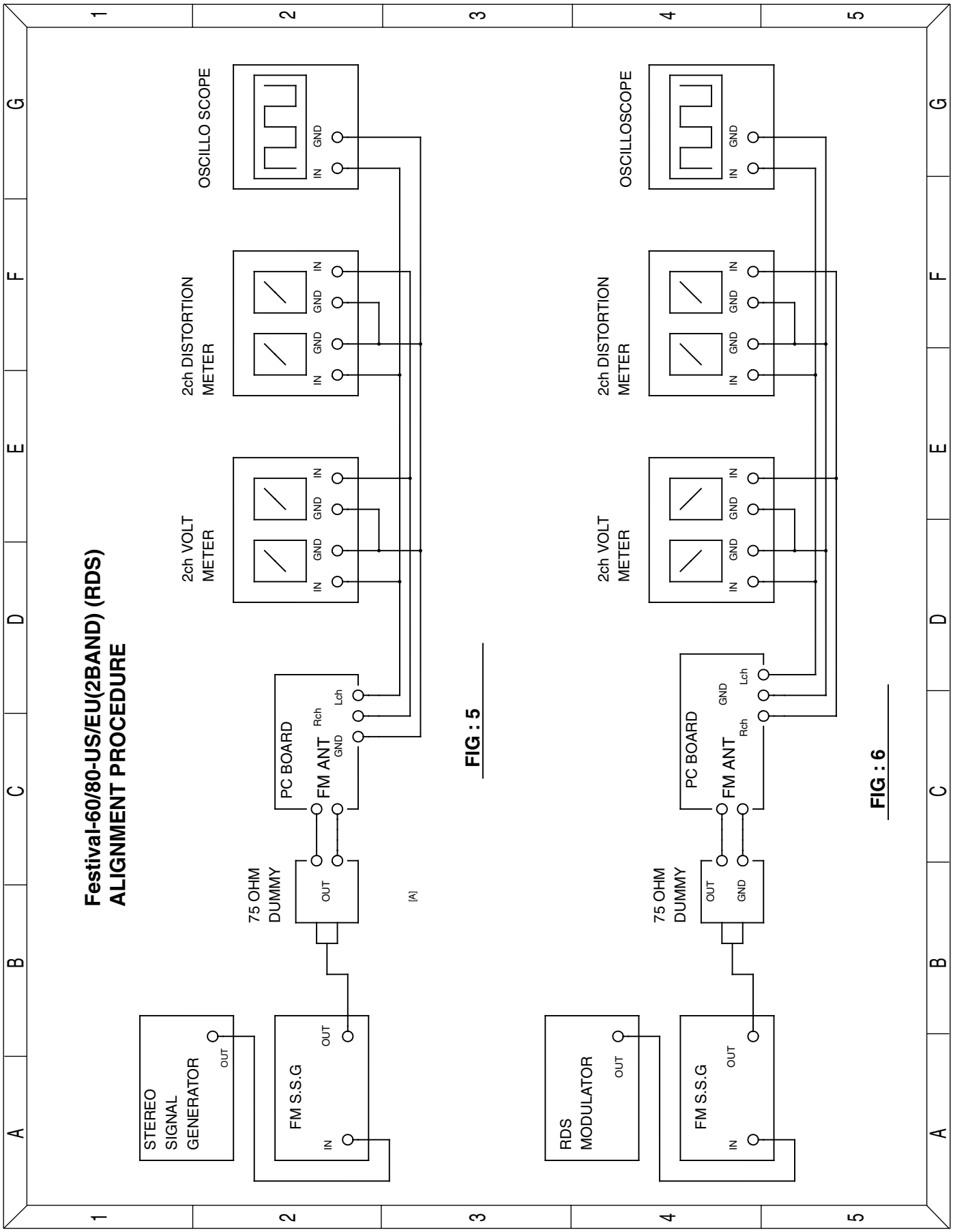
European RDS ADJUSTMENT Festival 60/80 (TUNER UNIT)

Adjustment Item	RDS Adjustment
Condition	Set the Function selector to the “FM” position.
Equipment	DIGITAL VOLT METER FM SIGNAL GENERATOR and DUMMY ANTENNA (Fig.3) RDS MODULATOR 2 CHANNEL VOLT METER OSCILLOSCOPE 2 CHANNEL DISTORTION METER See Fig.6 see page XX
Connection and Set Up	INPUT: FM ANTENNA TERMINAL Input 97.9MHz, 37.2dBf, 1kHz, 75kHz deviation and set PS, AF or PTY. Load Type SSG (W/75ohms Dummy): 60dBuV (SG)=65.2dBf (ANTENNA), Open Type SSG (W/75ohms Dummy): 66dBuV EMF (SG)+65.2dBf (ANTENNA)
Confirmation Method	1. PS: A Program Service Name. AF: A List of Alternative Frequency. PTY: A Program Type.

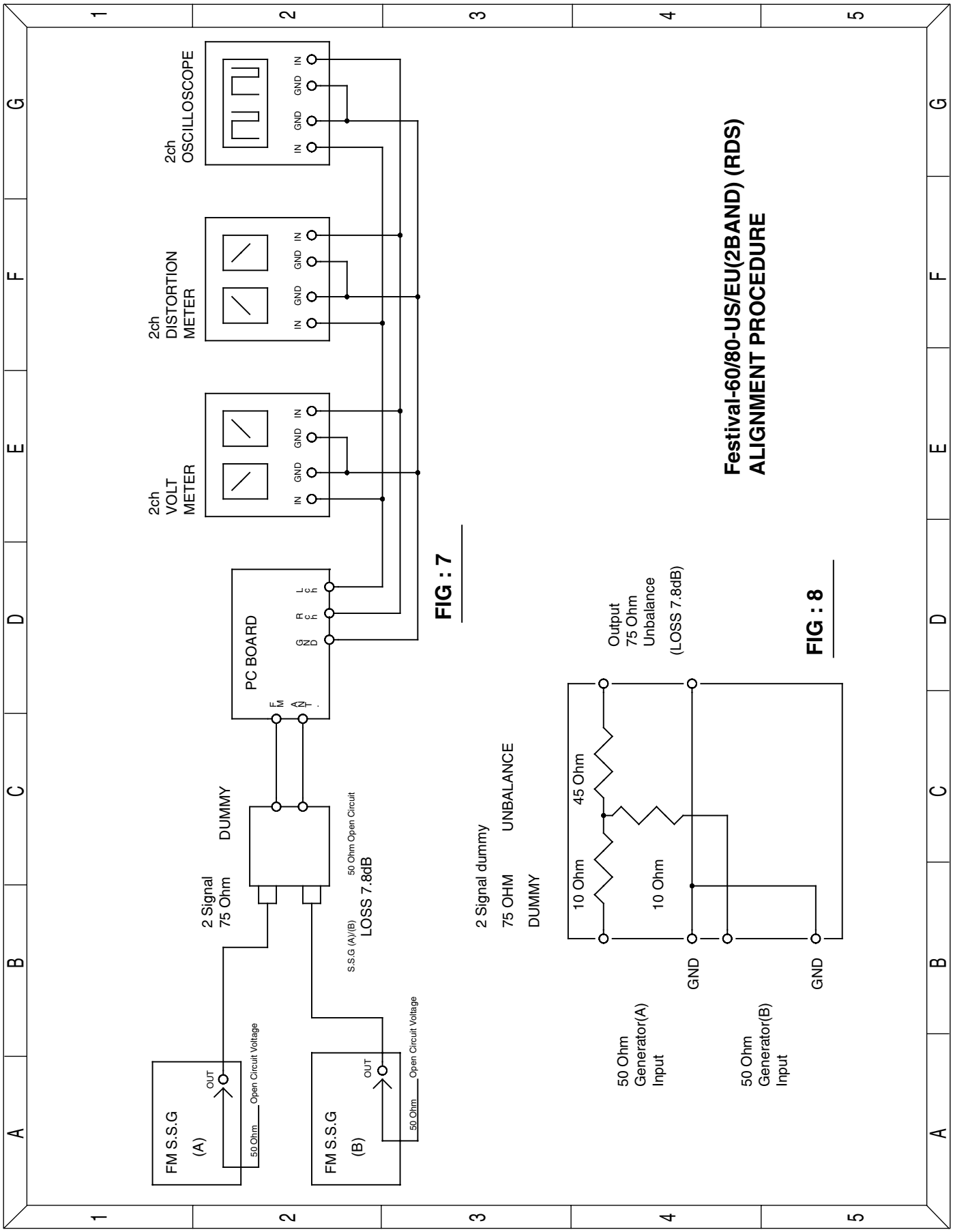
Festival-60/80-US/EU (2BAND) (RDS) ALIGNMENT PROCEDURE Figures 1-4



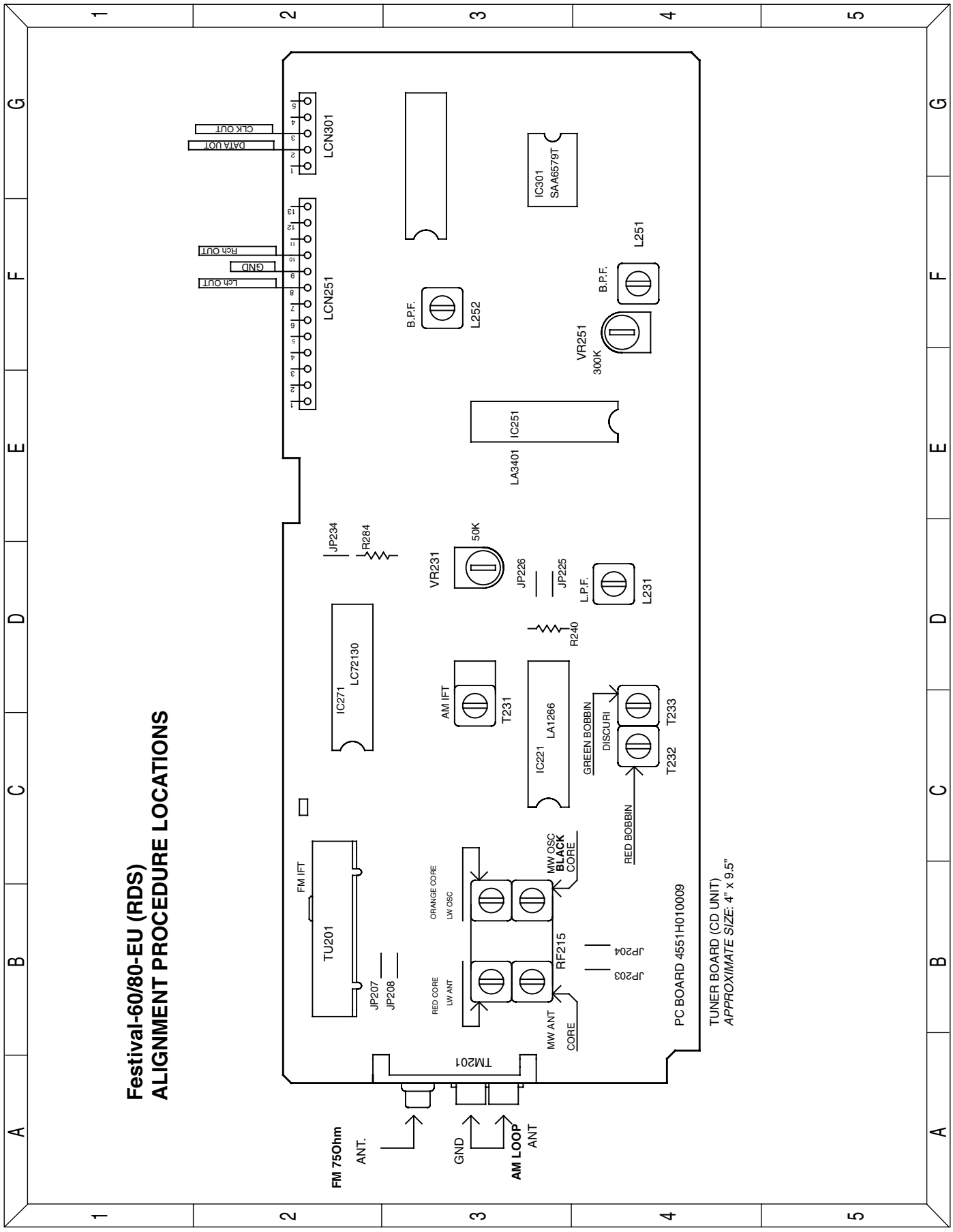
Festival-60/80-US/EU(2BAND) (RDS) ALIGNMENT PROCEDURE Figures 5 & 6



Festival-60/80-US/EU(2BAND) (RDS) ALIGNMENT PROCEDURE Figures 7 & 8



Festival-60/80-EU (RDS) ALIGNMENT PROCEDURE LOCATIONS



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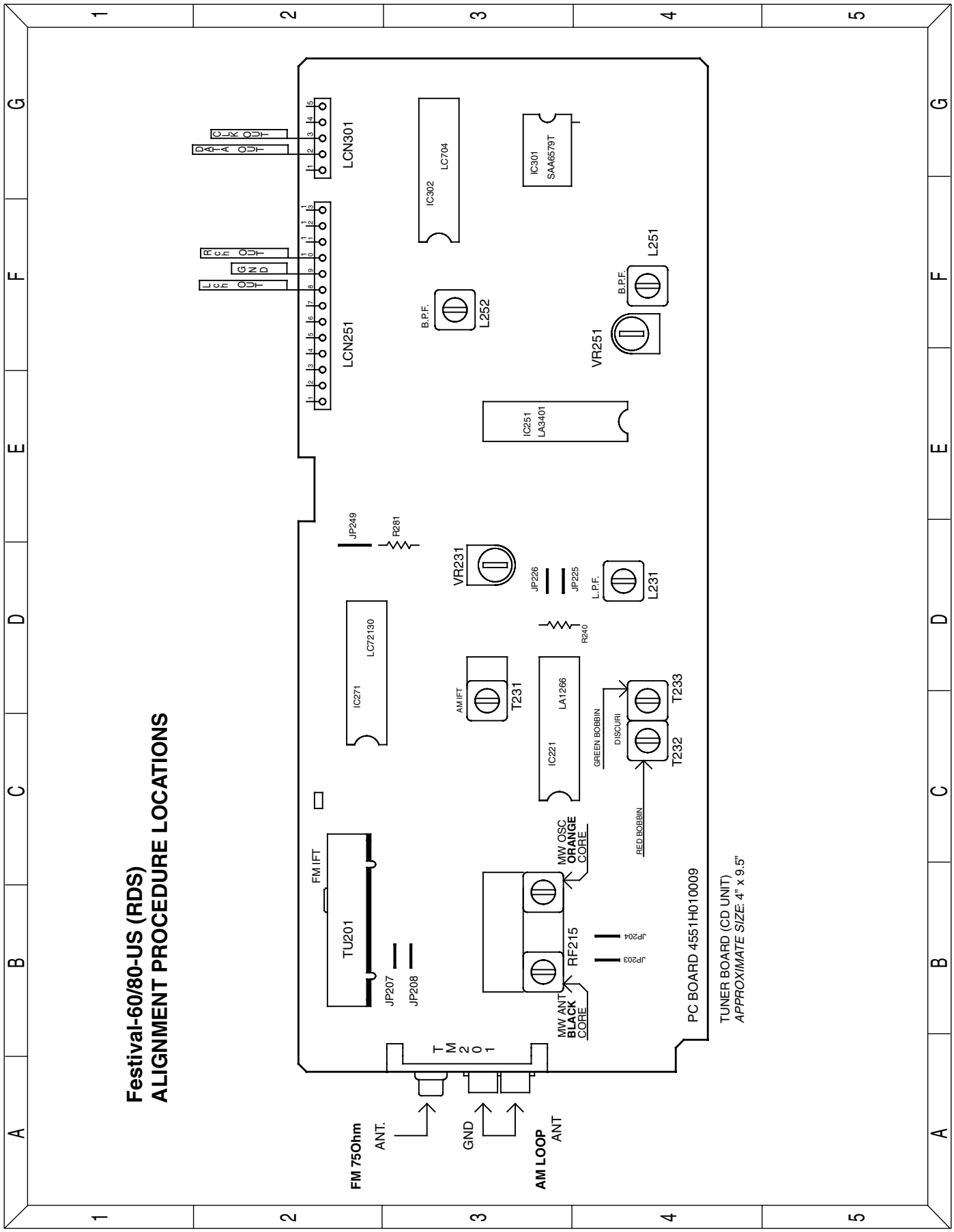

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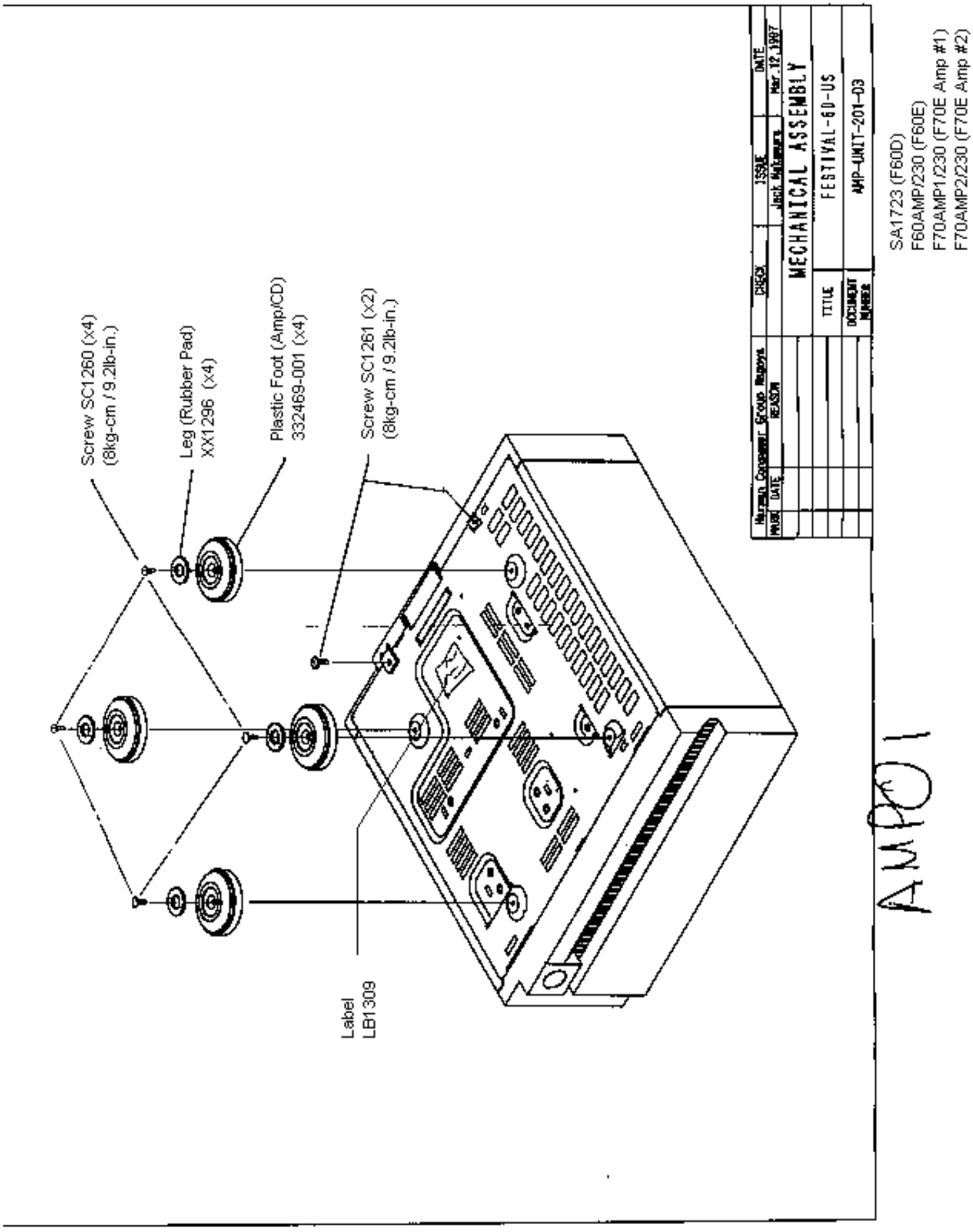
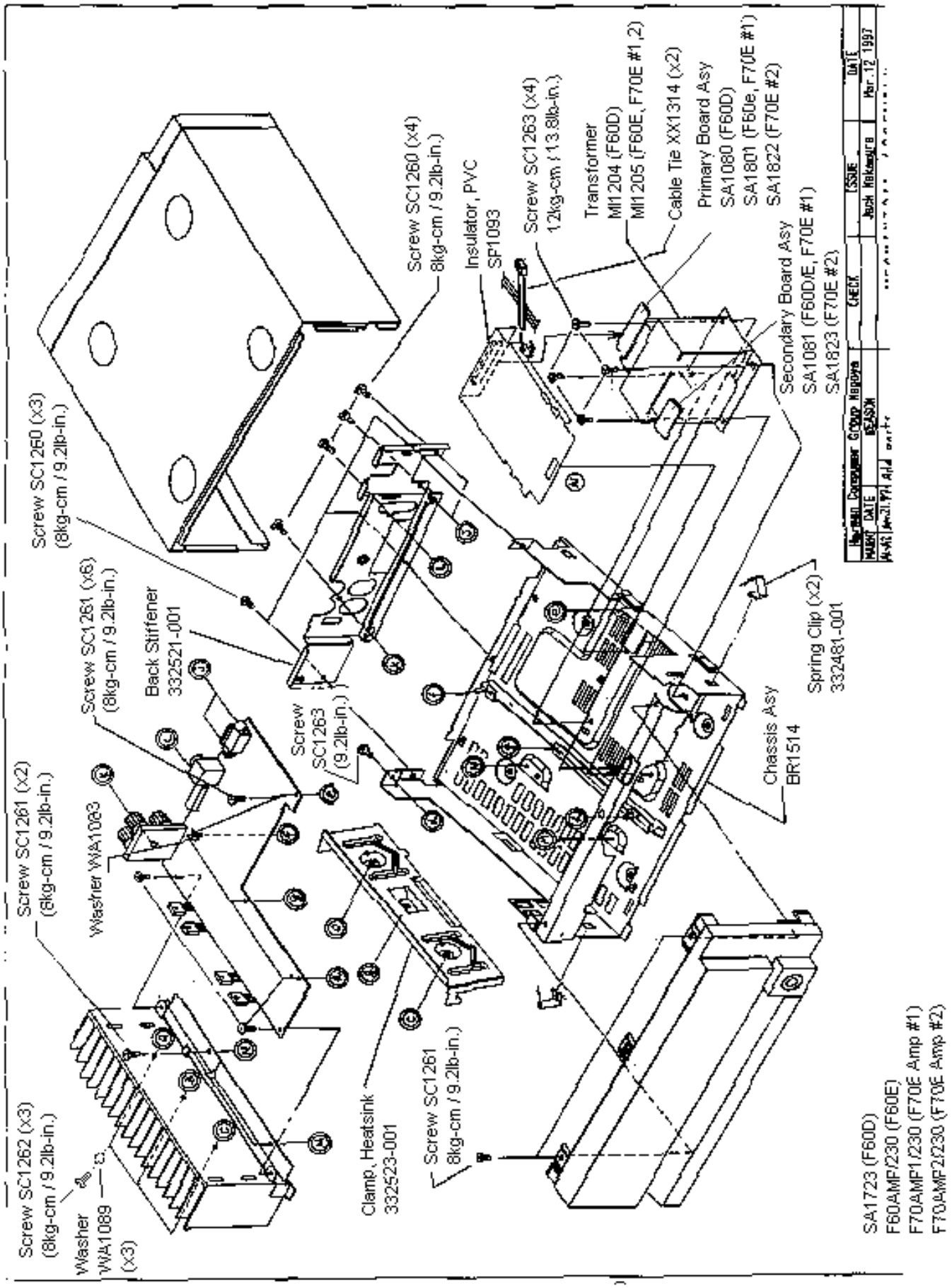
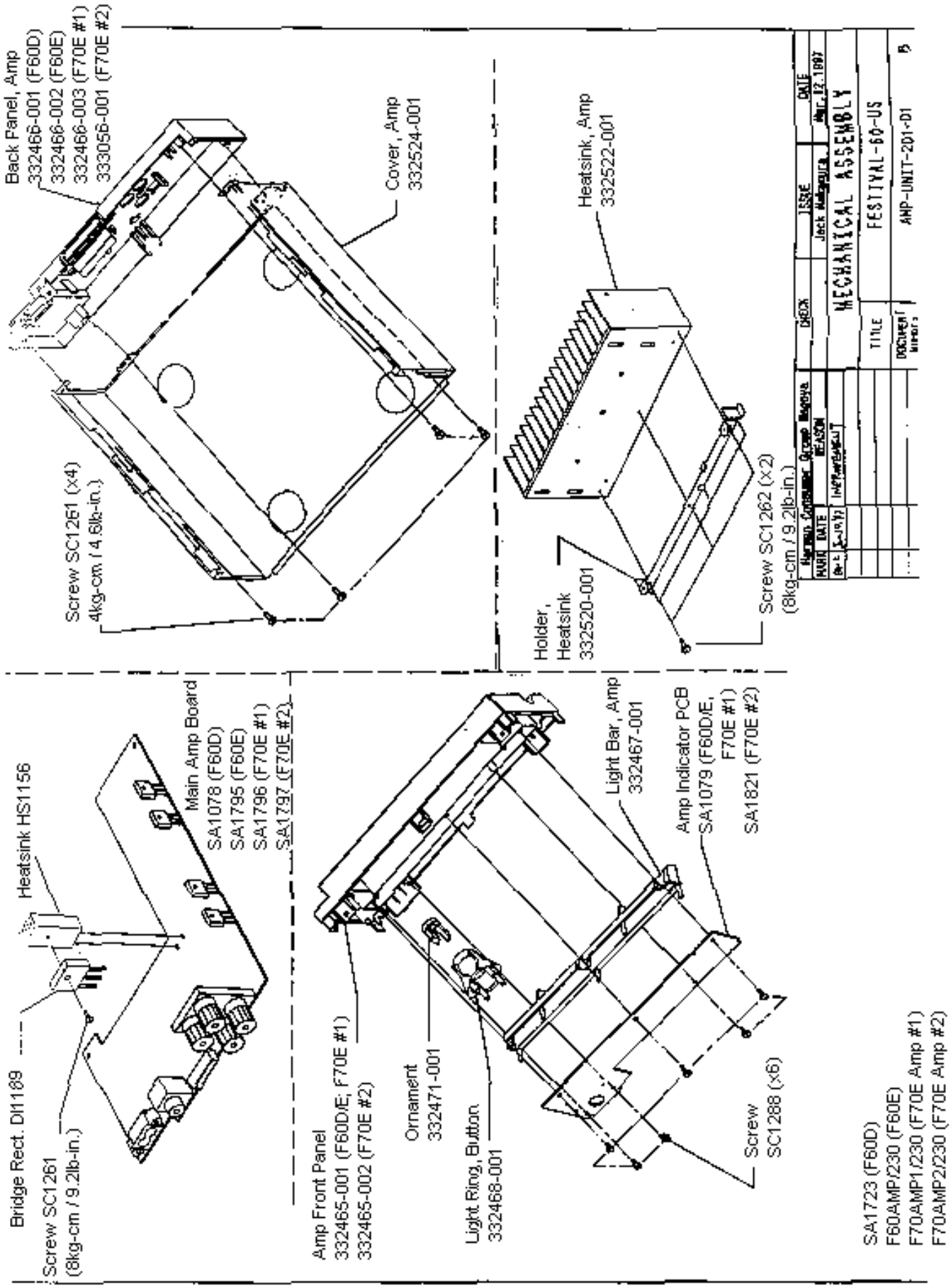
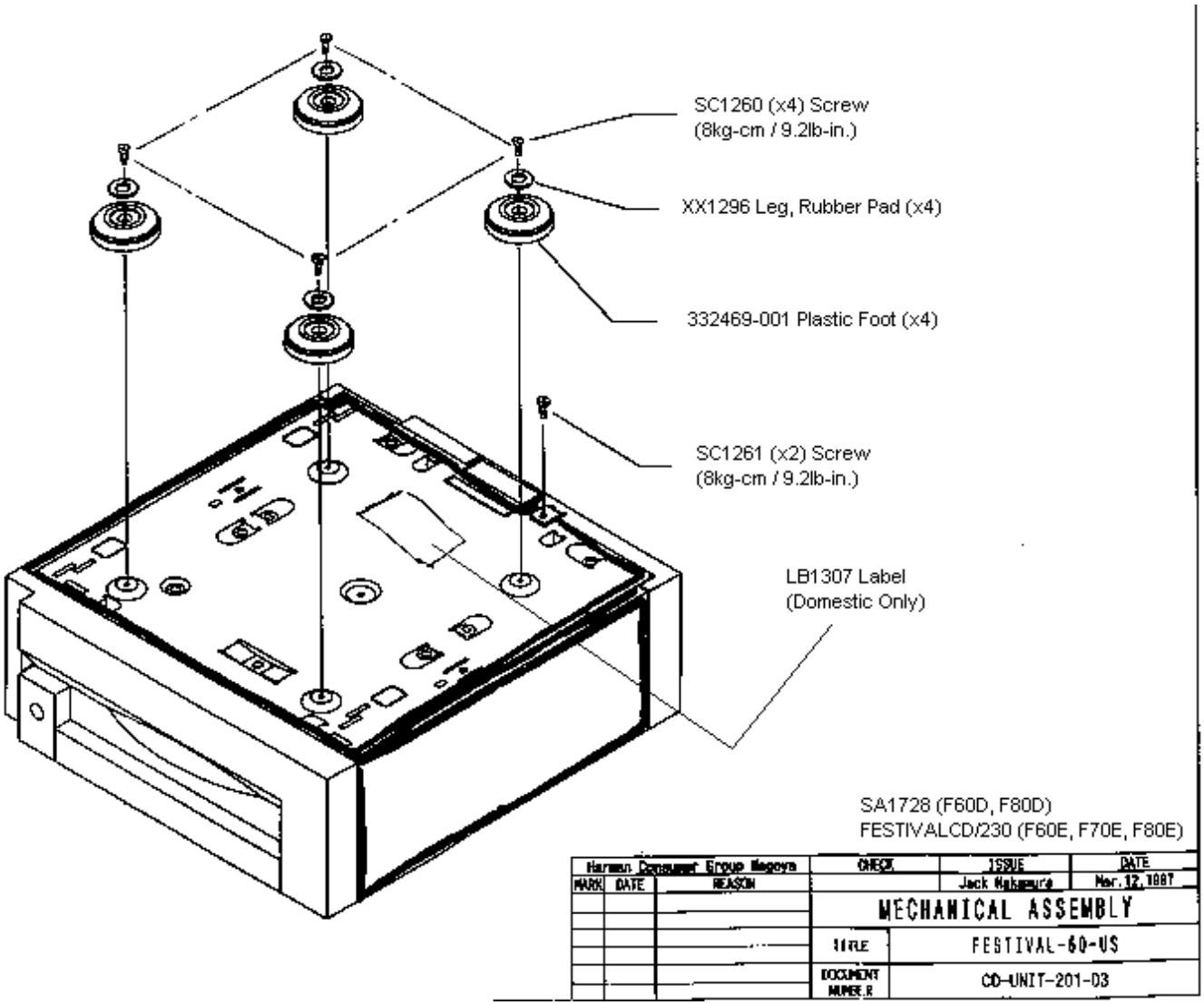
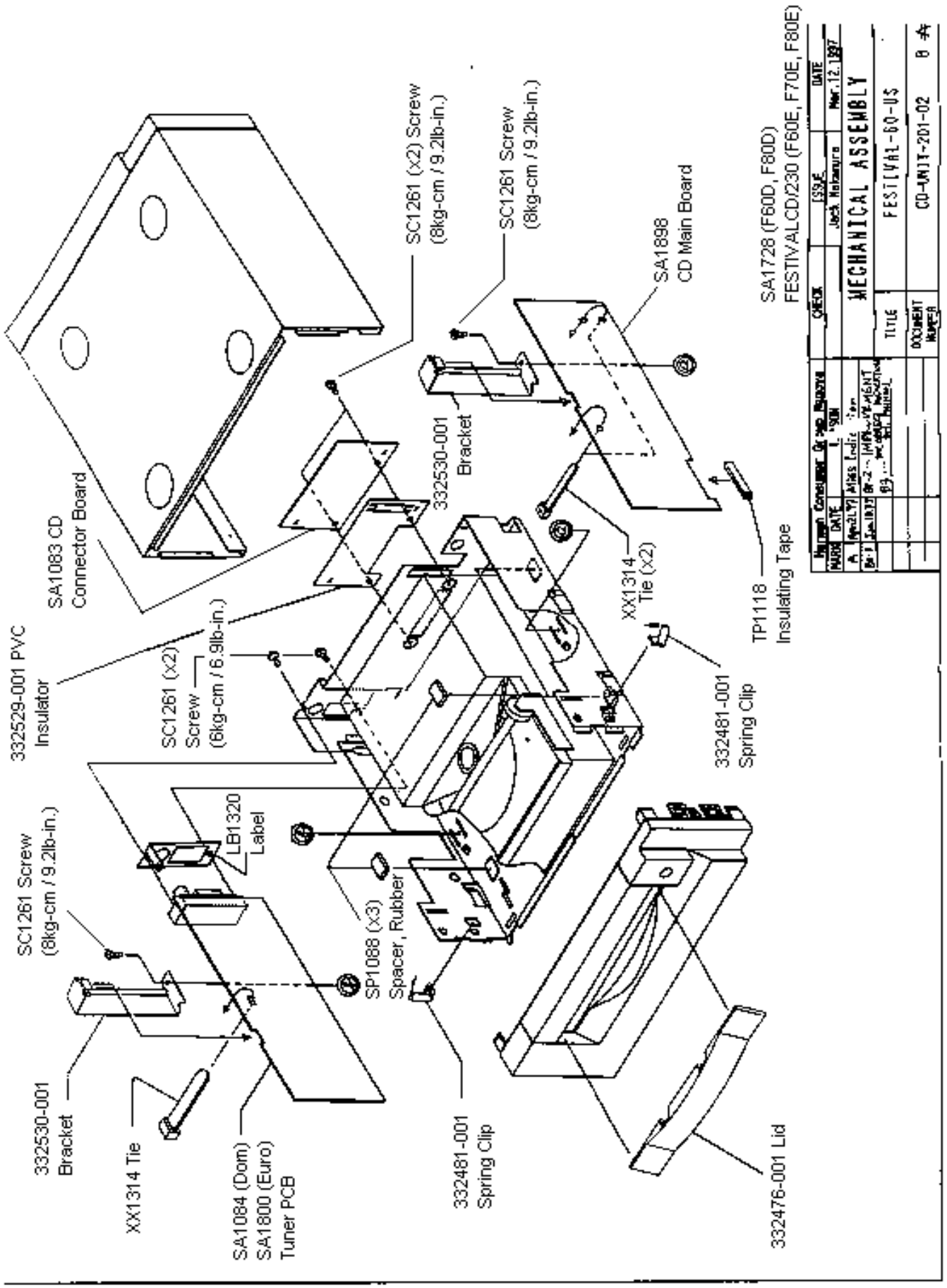
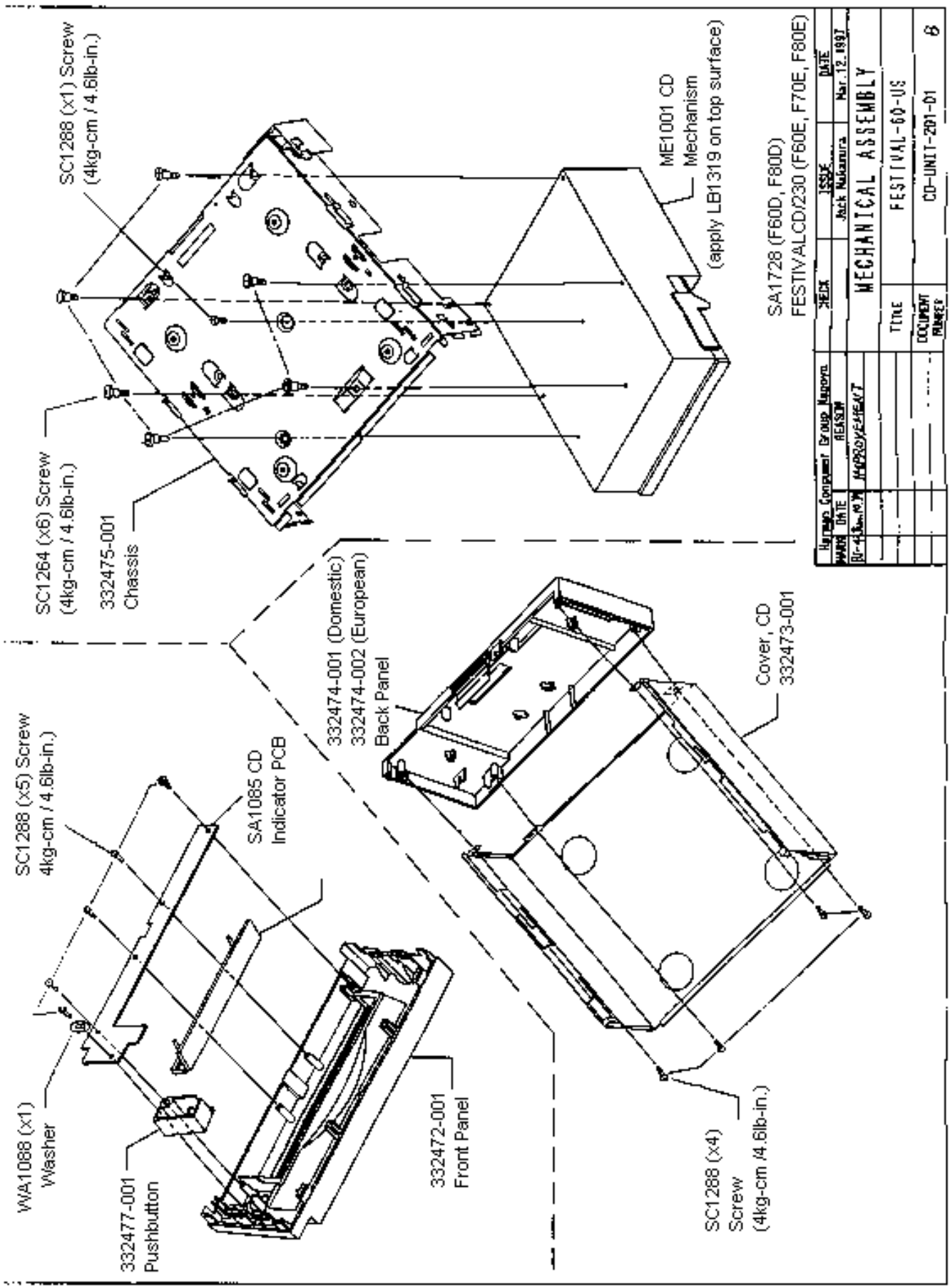


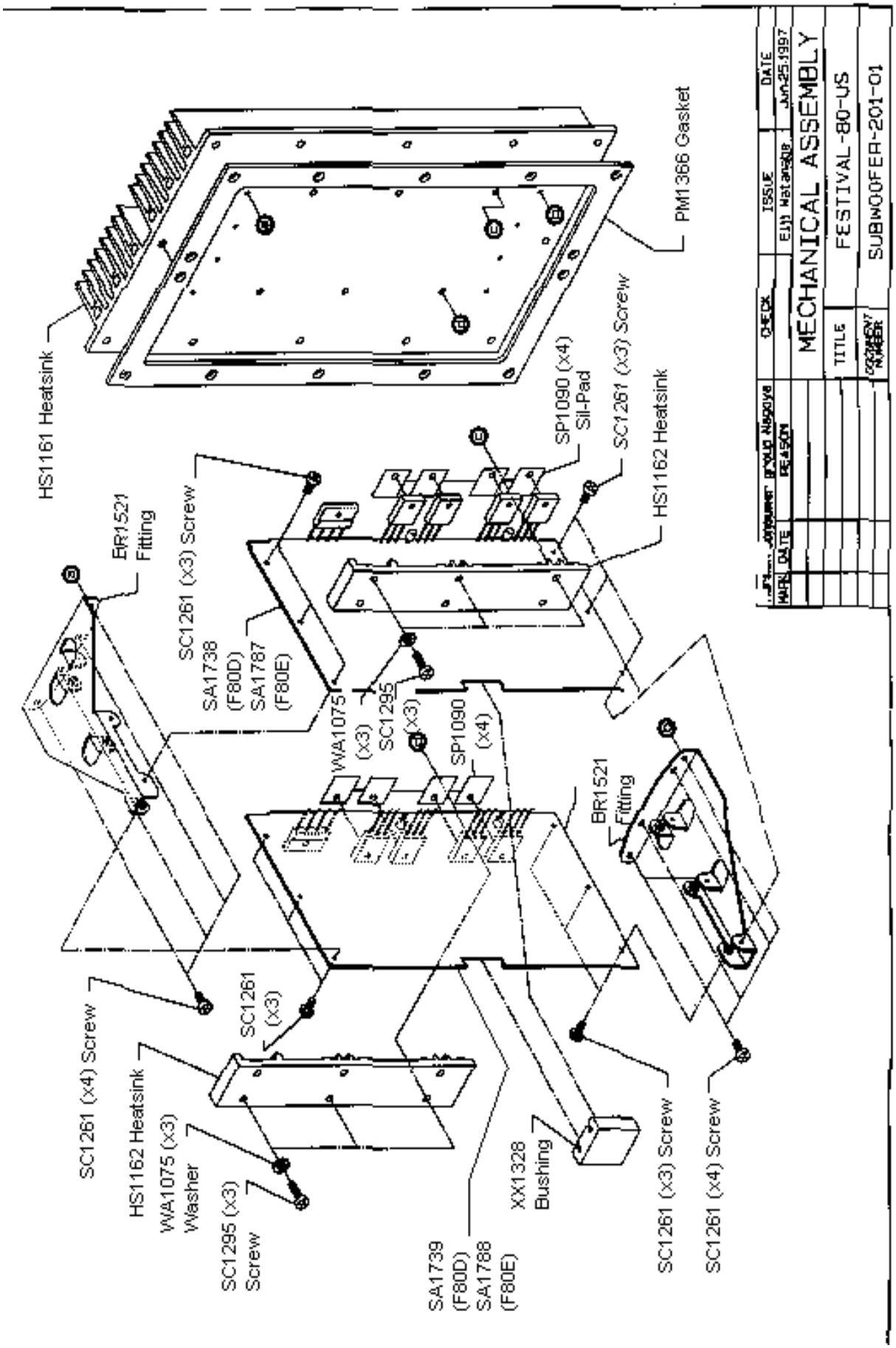

Screw SC1260 (x3)
(8kg-cm / 9.2lb-in.)
Screw SC1261 (x6)
(8kg-cm / 9.2lb-in.)
Back Stiffener
332521-001
Screw SC1261 (x2)
(8kg-cm / 9.2lb-in.)
Washer WA1083
Screw SC1263
(9.2lb-in.)
Screw SC1262 (x3)
(8kg-cm / 9.2lb-in.)
Washer WA1089 (x3)
Clamp, Heatsink
332523-001
Screw SC1261
8kg-cm / 9.2lb-in.)
Screw SC1260 (x4)
8kg-cm / 9.2lb-in.)
Insulator, PVC
SP1093
Screw SC1263 (x4)
12kg-cm (13.8lb-in.)
Transformer
MI1204 (F60D)
MI1205 (F60E, F70E #1,2)
Cable Tie XX1314 (x2)
Primary Board Asy
SA1080 (F60D)
SA1801 (F60e, F70E #1)
SA1822 (F70E #2)
Secondary Board Asy
SA1081 (F60D/E, F70E #1)
SA1823 (F70E #2)
Spring Clip (X2)
332481-001
Chassis Asy
BR1514
SA1723 (F60D)
F60AMP1/230 (F60E)
F70AMP1/230 (F70E Amp #1)
F70AMP2/230 (F70E Amp #2)

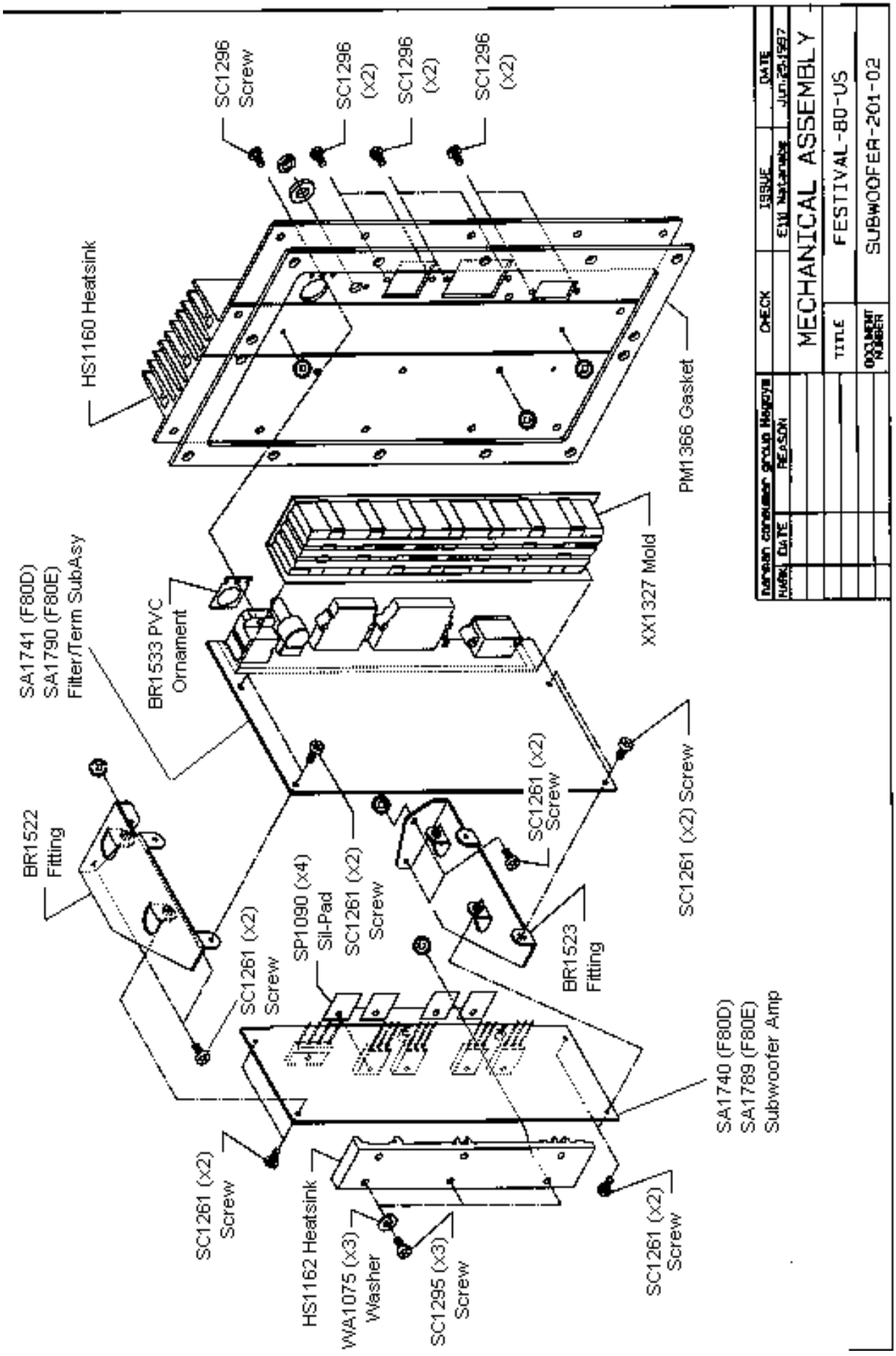

Back Panel, Amp
332466-001 (F60D)
332466-002 (F60E)
332466-003 (F70E #1)
333056-001 (F70E #2)
Screw SC1261 (x4)
4kg-cm / 4.6lb-in.)
Cover, Amp
332524-001
Heatsink, Amp
332522-001
Holder, Heatsink
332520-001
Screw SC1262 (x2)
(8kg-cm / 9.2lb-in.)
Bridge Rect. DI1189
Screw SC1261
(8kg-cm / 9.2lb-in.)
Heatsink HS1156
Main Amp Board
SA1078 (F60D)
SA1795 (F60E)
SA1796 (F70E #1)
SA1797 (F70E #2)
Amp Front Panel
332465-001 (F60D/E; F70E #1)
332465-002 (F70E #2)
Ornament
332471-001
Light Ring, Button
332468-001
Light Bar, Amp
332467-001
Amp Indicator PCB
SA1079 (F60D/E, F70E #1)
SA1821 (F70E #2)
Screw
SC1288 (x6)
SA1723 (F60D)
F60AMP/230 (F60E)
F70AMP1/230 (F70E Amp #1)
F70AMP2/230 (F70E Amp #2)
MECHANICAL ASSEMBLY
FESTIVAL-60-US
AMP-UNIT-201-01

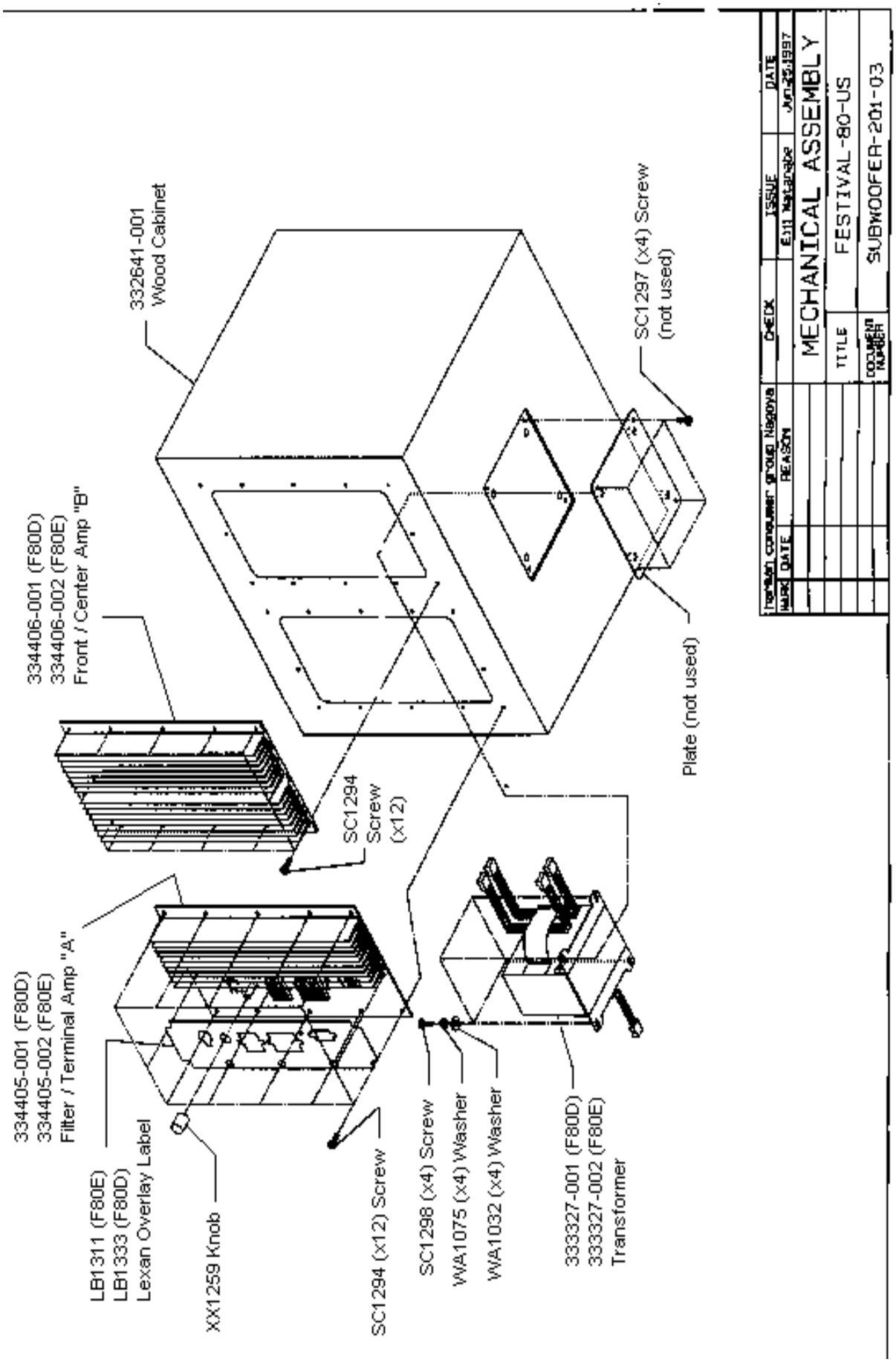

SC1260 (x4) Screw
(8kg-cm / 9.2lb-in.)
XX1296 Leg, Rubber Pad (x4)
332469-001 Plastic Foot (x4)
SC1261 (x2) Screw
(8kg-cm / 9.2lb-in.)
LB1307 Label
(Domestic Only)
SA1728 (F60D, F80D)
FESTIVALCD/230 (F60E, F70E, F80E)
Harman Consumer Group Nagoya
MARK DATE REASON
CHECK
ISSUE Jack Nakamura
DATE Mar. 12, 1997
MECHANICAL ASSEMBLY
TITLE FESTIVAL-60-US
DOCUMENT NUMBER CD-UNIT-201-03

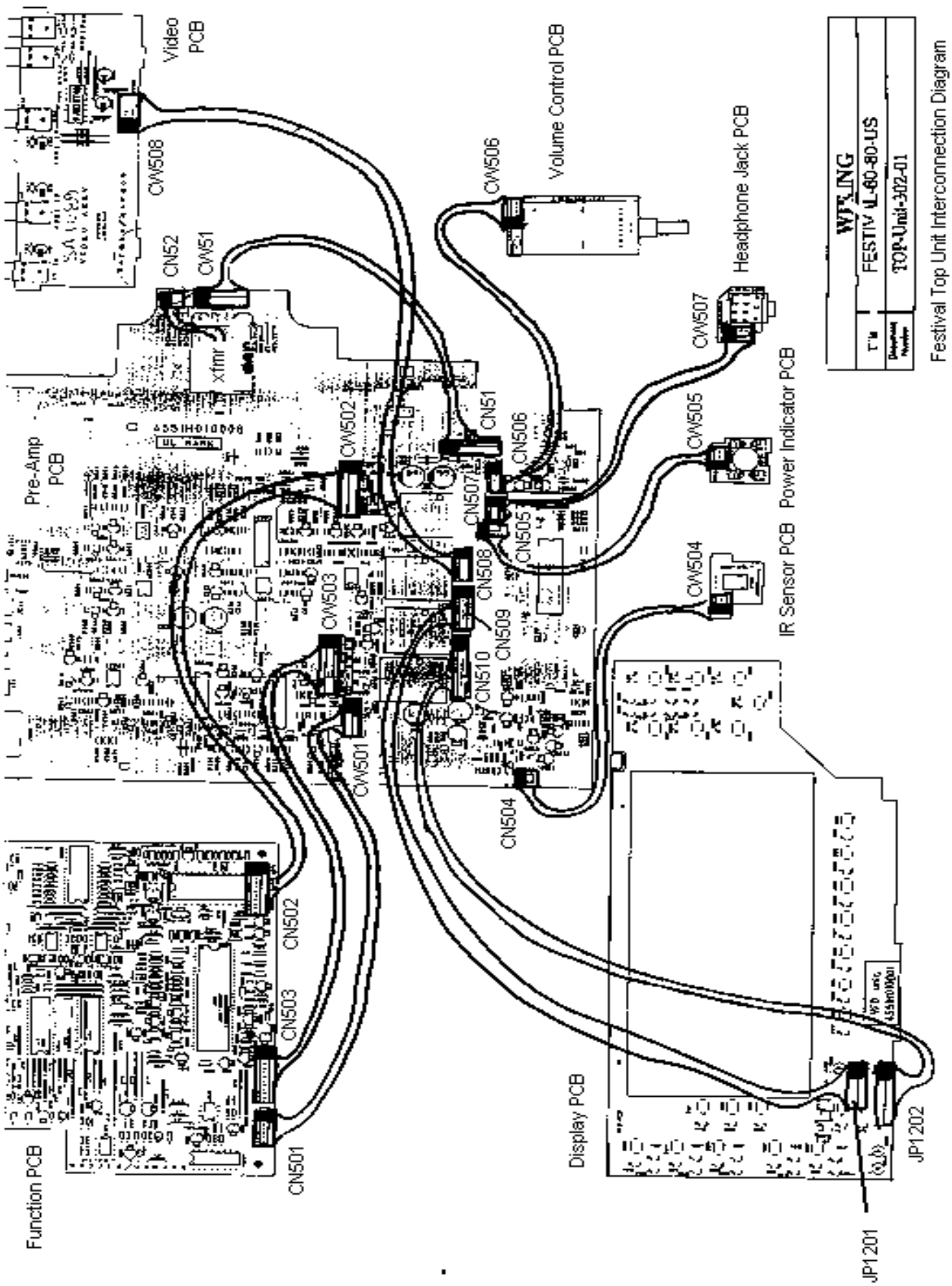

SA1728 (F60D, F80D)
FESTIVALCD/230 (F60E, F70E, F80E)
MECHANICAL ASSEMBLY
FESTIVAL-60-US
CD-UNIT-201-02
SA1083 CD
Connector Board
SC1261 (x2) Screw
(8kg-cm / 9.2lb-in.)
SC1261 Screw
(8kg-cm / 9.2lb-in.)
SA1898
CD Main Board
332530-001
Bracket
XX1314
Tie (X2)
TP1118
Insulating Tape
332529-001 PVC
Insulator
SC1261 (X2)
Screw
(6kg-cm / 6.9lb-in.)
332481-001
Spring Clip
SC1261 Screw
(8kg-cm / 9.2lb-in.)
LB1320
Label
SP1088 (X3)
Spacer, Rubber
332530-001
Bracket
XX1314 Tie
SA1084 (Dom)
SA1800 (Euro)
Tuner PCB
332481-001
Spring Clip
332476-001 Lid

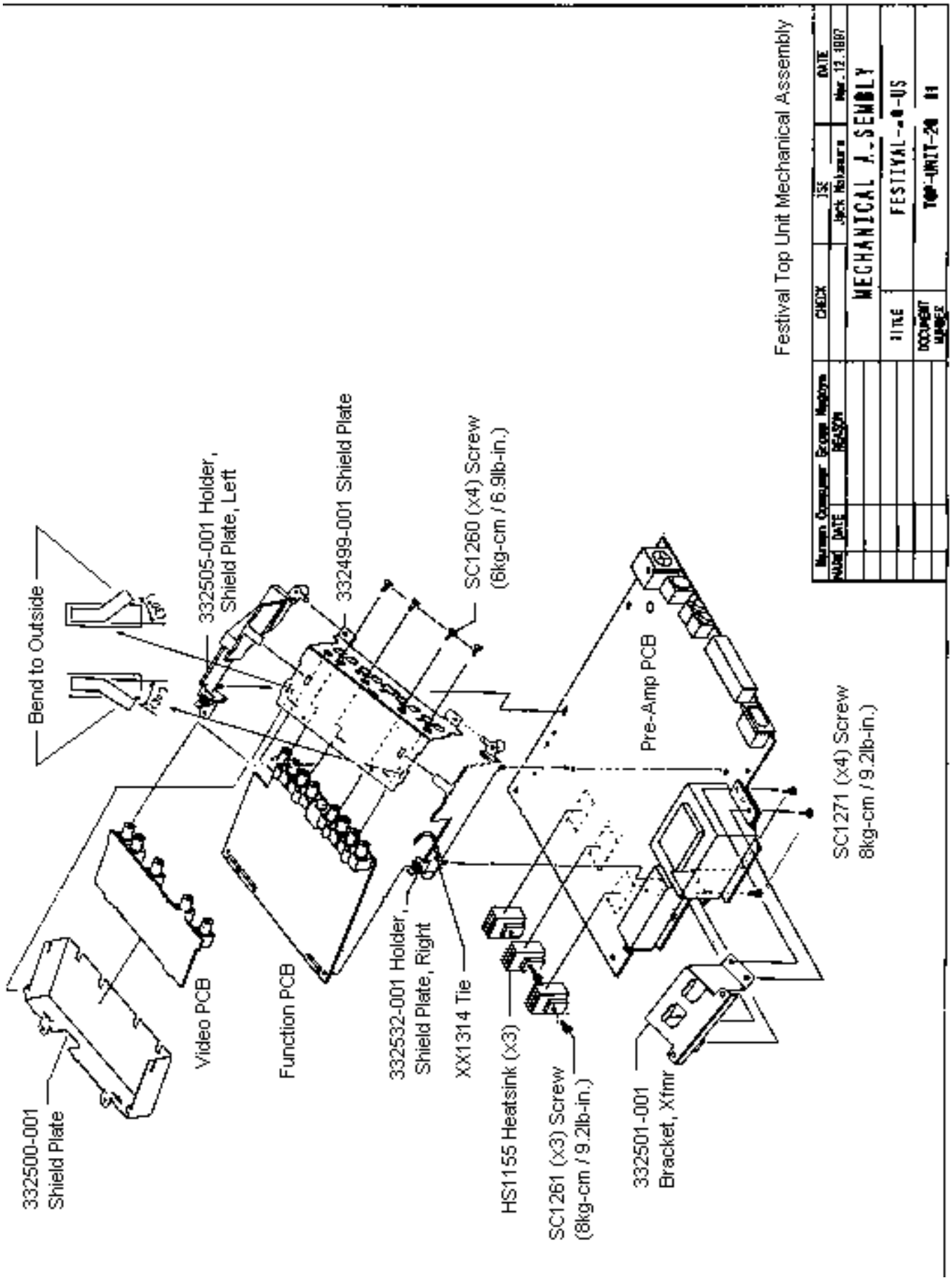

SC1288 (x1) Screw
(4kg-cm / 4.6lb-in.)
ME1001 CD
Mechanism
(apply LB1319 on top surface)
SC1264 (x6) Screw
(4kg-cm / 4.6lb-in.)
332475-001
Chassis
SA1728 (F60D, F80D)
FESTIVALCD/230 (F60E, F70E, F80E)
332474-001 (Domestic)
332474-002 (European)
Back Panel
Cover, CD
332473-001
SC1288 (x5) Screw
4kg-cm / 4.6lb-in.)
SA1085 CD
Indicator PCB
WA1088 (x1)
Washer
332477-001
Pushbutton
332472-001
Front Panel
SC1288 (x4)
Screw
(4kg-cm /4.6lb-in.)
MECHANICAL ASSEMBLY
FESTIVAL-60-US
CD-UNIT-201-01

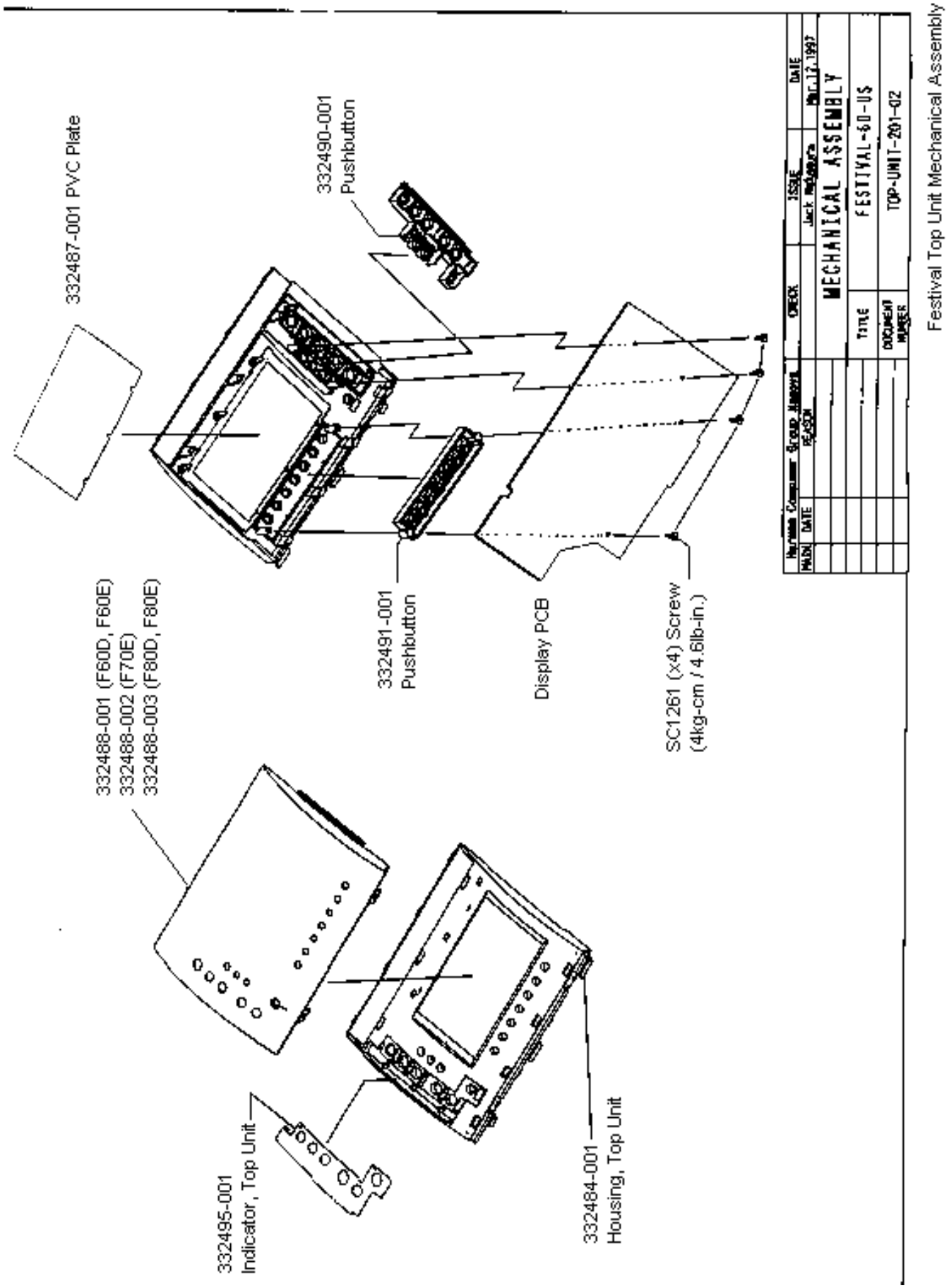

HS1161 Heatsink
PM1366 Gasket
BR1521 Fitting
SC1261 (x3) Screw
SA1738 (F80D) SA1787 (F80E)
SP1090 (x4) Sil-Pad
SC1261 (x3) Screw
HS1162 Heatsink
WA1075 (x3)
SC1295 (x3)
SP1090 (x4)
BR1521 Fitting
SC1261 (x4) Screw
HS1162 Heatsink
WA1075 (x3) Washer
SC1295 (x3) Screw
SC1261 (x3)
SA1739 (F80D) SA1788 (F80E)
XX1328 Bushing
SC1261 (x3) Screw
SC1261 (x4) Screw
MECHANICAL ASSEMBLY
FESTIVAL-80-US
SUBWOOFER-201-01
334406-001 (Domestic)
334406-002 (European)
Festival-80 Subwoofer Amplifier
Front / Center Amp "B"


SC1296 Screw
SC1296 (X2)
SC1296 (X2)
SC1296 (X2)
HS1160 Heatsink
PM1366 Gasket
SA1741 (F80D)
SA1790 (F80E)
Filter/Term SubAsy
BR1533 PVC Ornament
XX1327 Mold
BR1522 Fitting
SC1261 (X2) Screw
SC1261 (X2) Screw
SP1090 (X4) Sil-Pad
SC1261 (X2) Screw
SC1261 (X2) Screw
SC1261 (X2) Screw
BR1523 Fitting
SA1740 (F80D)
SA1789 (F80E)
Subwoofer Amp
SC1261 (X2) Screw
HS1162 Heatsink
WA1075 (X3) Washer
SC1295 (X3) Screw
SC1261 (X2) Screw
CHECK
ISSUE
DATE
MECHANICAL ASSEMBLY
TITLE
FESTIVAL-80-US
SUBWOOFER-201-02
334405-001 (F80D)
334405-002 (F80E)
Festival-80 Subwoofer Amplifier
Filter / Terminal Amp "A"

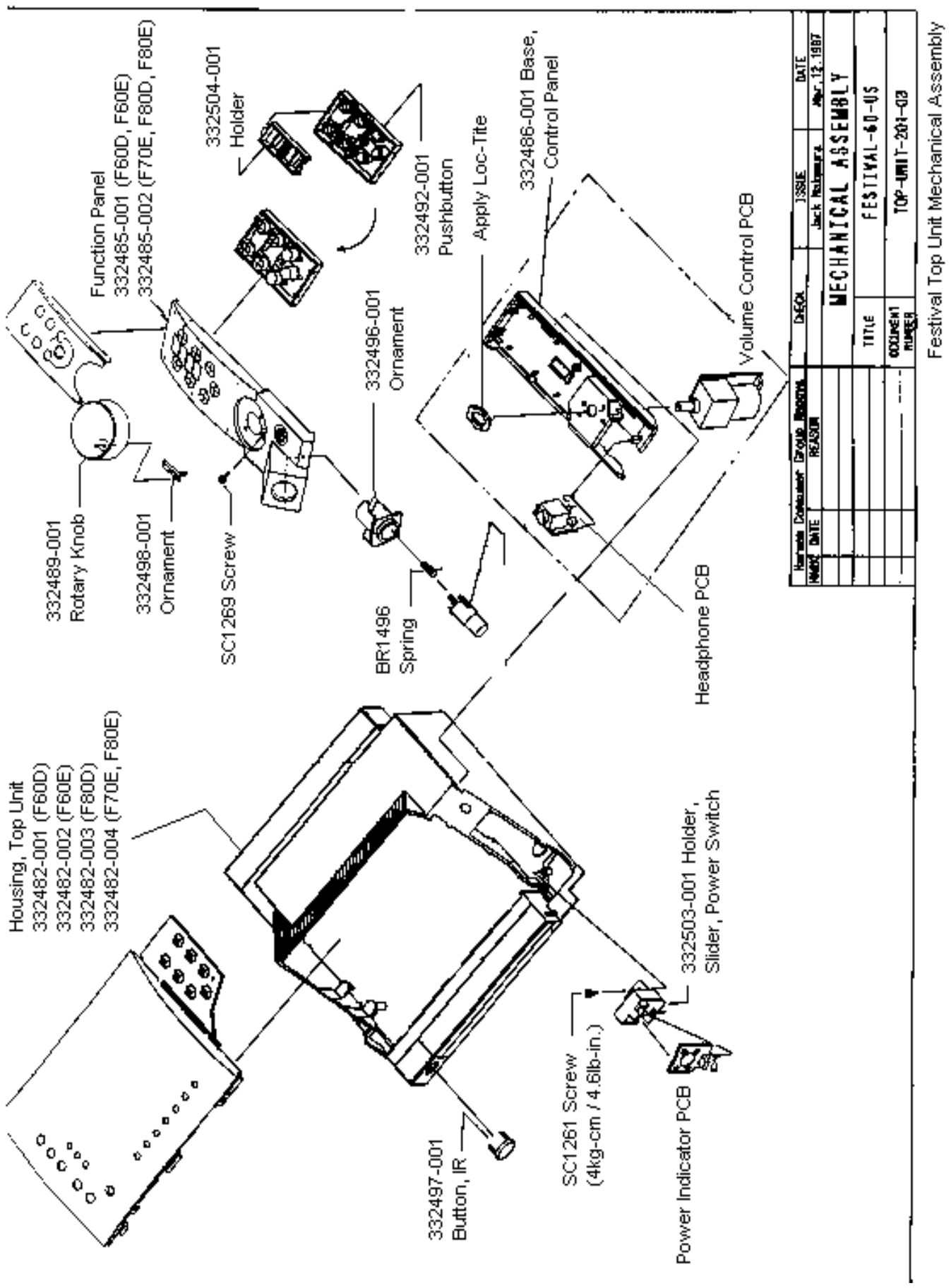

332641-001
Wood Cabinet
334406-001 (F80D)
334406-002 (F80E)
Front / Center Amp "B"
334405-001 (F80D)
334405-002 (F80E)
Filter / Terminal Amp "A"
LB1311 (F80E)
LB1333 (F80D)
Lexan Overlay Label
XX1259 Knob
SC1294 (x12) Screw
SC1298 (x4) Screw
WA1075 (x4) Washer
WA1032 (x4) Washer
333327-001 (F80D)
333327-002 (F80E)
Transformer
SC1294
Screw
(x12)
Plate (not used)
SC1297 (x4) Screw
(not used)
harman consumer group Nagoya
MARK DATE REASON
CHECK
ISSUE
Eiji Nakanishi
DATE
Jun.25.1997
MECHANICAL ASSEMBLY
TITLE
FESTIVAL-80-US
DOCUMENT NUMBER
SUBWOOFER-201-03
333321-001 (Domestic)
333321-002 (European)
Festival-80 Subwoofer Amplifier
(Final Assembly)

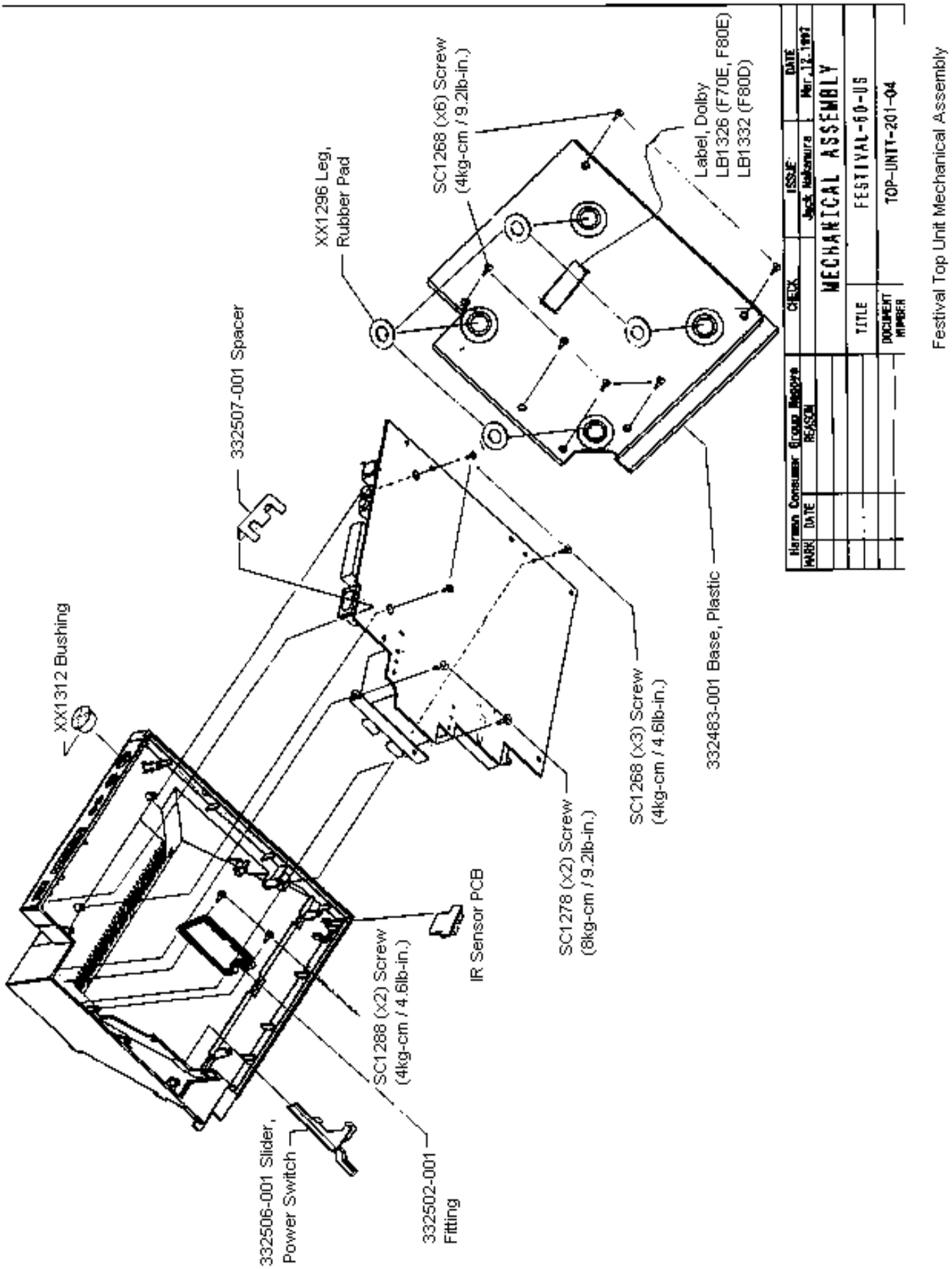

Video PCB
CW508
CN52
CW51
Xfmr
Pre-Amp PCB
CW502
CN503
CW501
CN501
Function PCB
CN502
CN503
CN501
CW506
Volume Control PCB
Headphone Jack PCB
CW507
CW505
Power Indicator PCB
CW504
IR Sensor PCB
CN51
CN506
CN507
CN505
CN508
CN509
CN510
CN504
Display PCB
JP1202
JP1201
WJ-LING
FESTIV xL-60-80-US
TOP-Unit-302-01
Festival Top Unit Interconnection Diagram


Festival Top Unit Mechanical Assembly
Bend to Outside
332505-001 Holder, Shield Plate, Left
332499-001 Shield Plate
SC1260 (x4) Screw (6kg-cm / 6.9lb-in.)
Pre-Amp PCB
SC1271 (x4) Screw 8kg-cm / 9.2lb-in.)
332500-001 Shield Plate
Video PCB
Function PCB
332532-001 Holder, Shield Plate, Right
XX1314 Tie
HS1155 Heatsink (x3)
SC1261 (x3) Screw (8kg-cm / 9.2lb-in.)
332501-001 Bracket, Xfmr
MECHANICAL ASSEMBLY
FESTIVAL-60-US
TOP-UNIT-2A



Festival Top Unit Mechanical Assembly

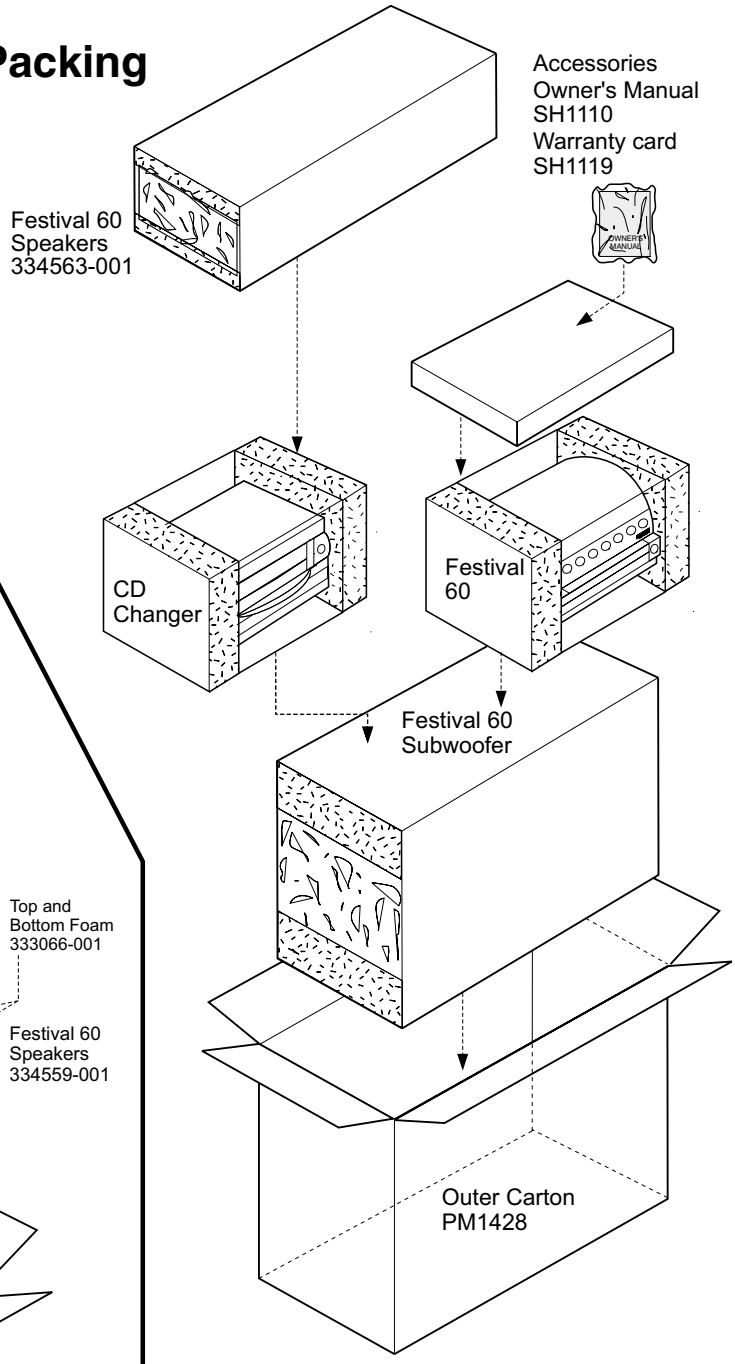

Housing, Top Unit
332482-001 (F60D)
332482-002 (F60E)
332482-003 (F80D)
332482-004 (F70E, F80E)
Function Panel
332485-001 (F60D, F60E)
332485-002 (F70E, F80D, F80E)
332504-001
Holder
332492-001
Pushbutton
Apply Loc-Tite
332486-001 Base,
Control Panel
Volume Control PCB
332489-001
Rotary Knob
332498-001
Ornament
SC1269 Screw
332496-001
Ornament
BR1496
Spring
Headphone PCB
332503-001 Holder,
Slider, Power Switch
SC1261 Screw
(4kg-cm / 4.6lb-in.)
Power Indicator PCB
332497-001
Button, IR
MECHANICAL ASSEMBLY
FESTIVAL-60-US
TOP-UNIT-201-03
Festival Top Unit Mechanical Assembly



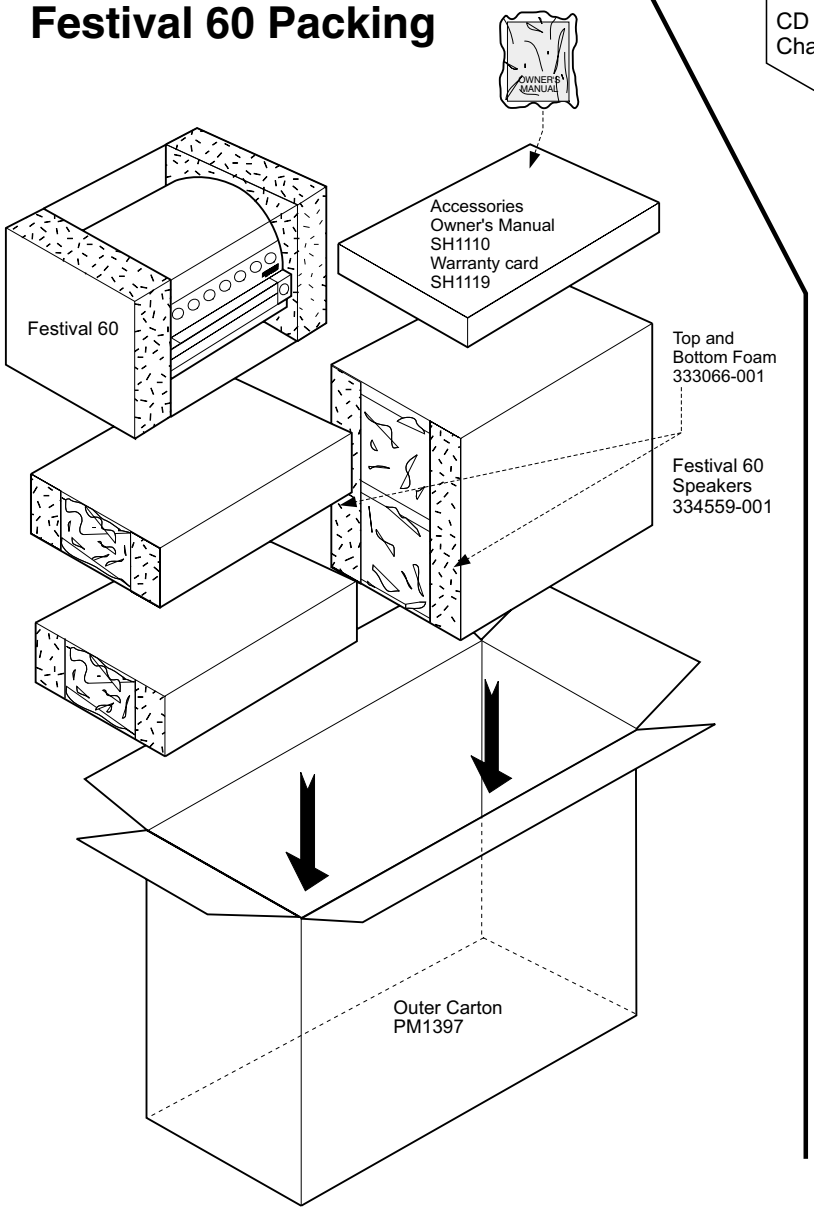
Festival Top Unit Mechanical Assembly

Festival 60/80 PACKING

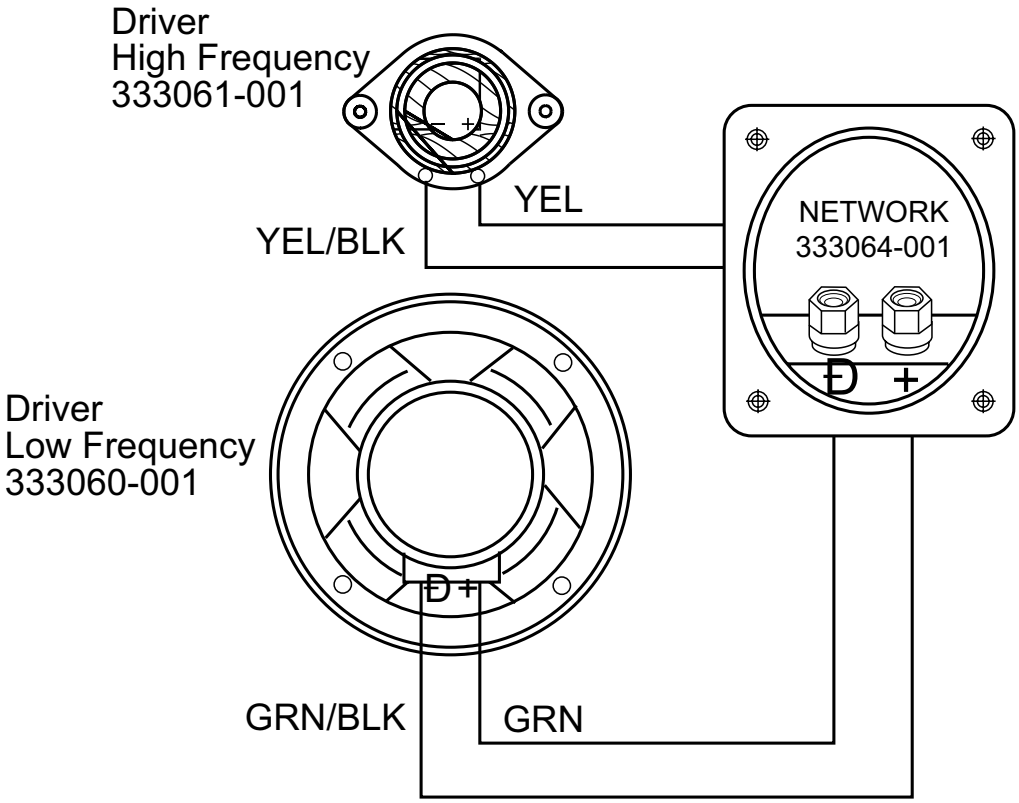
Festival 80 Packing

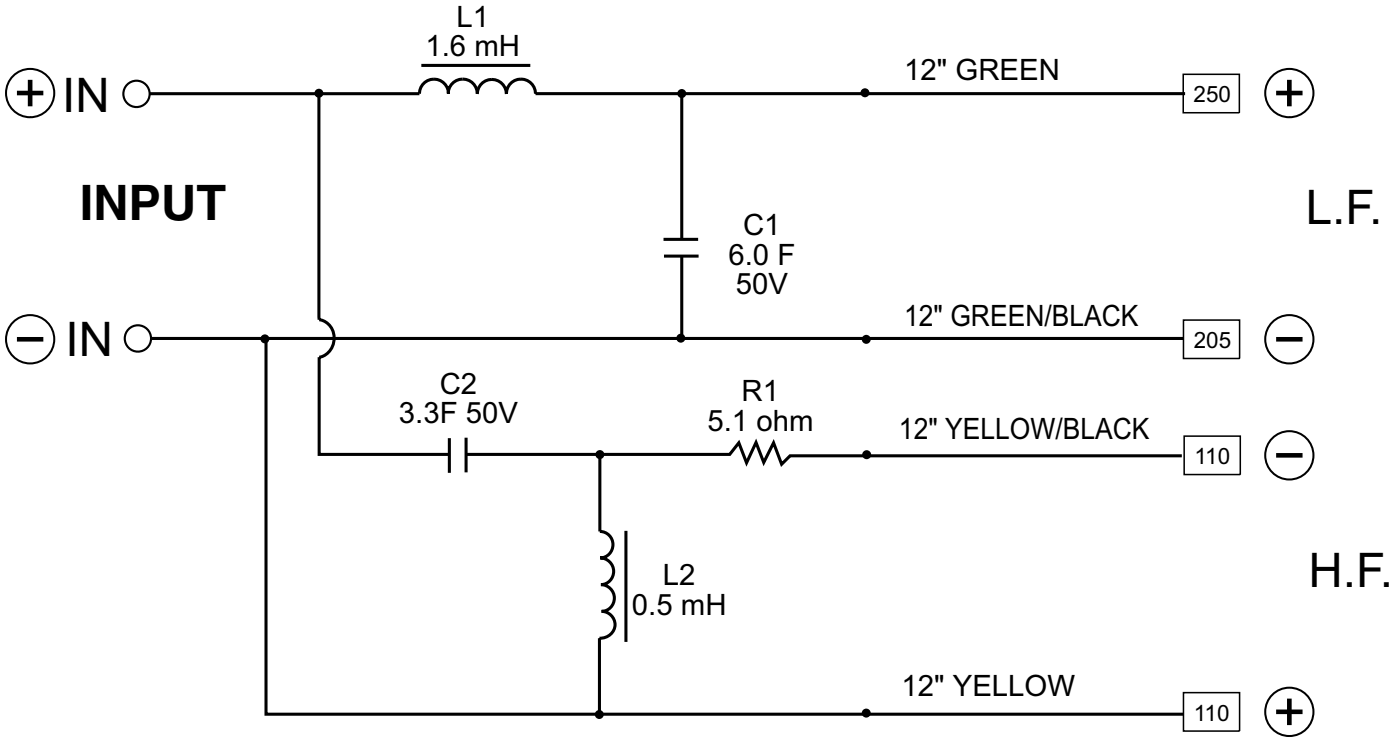


Festival 60 Packing

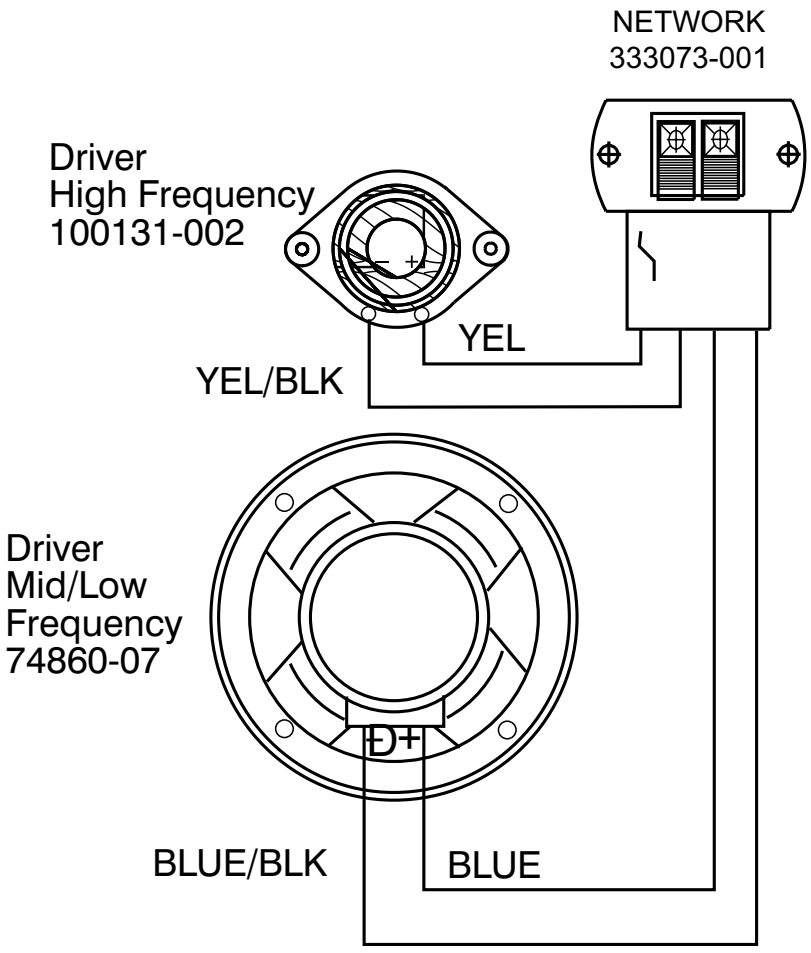


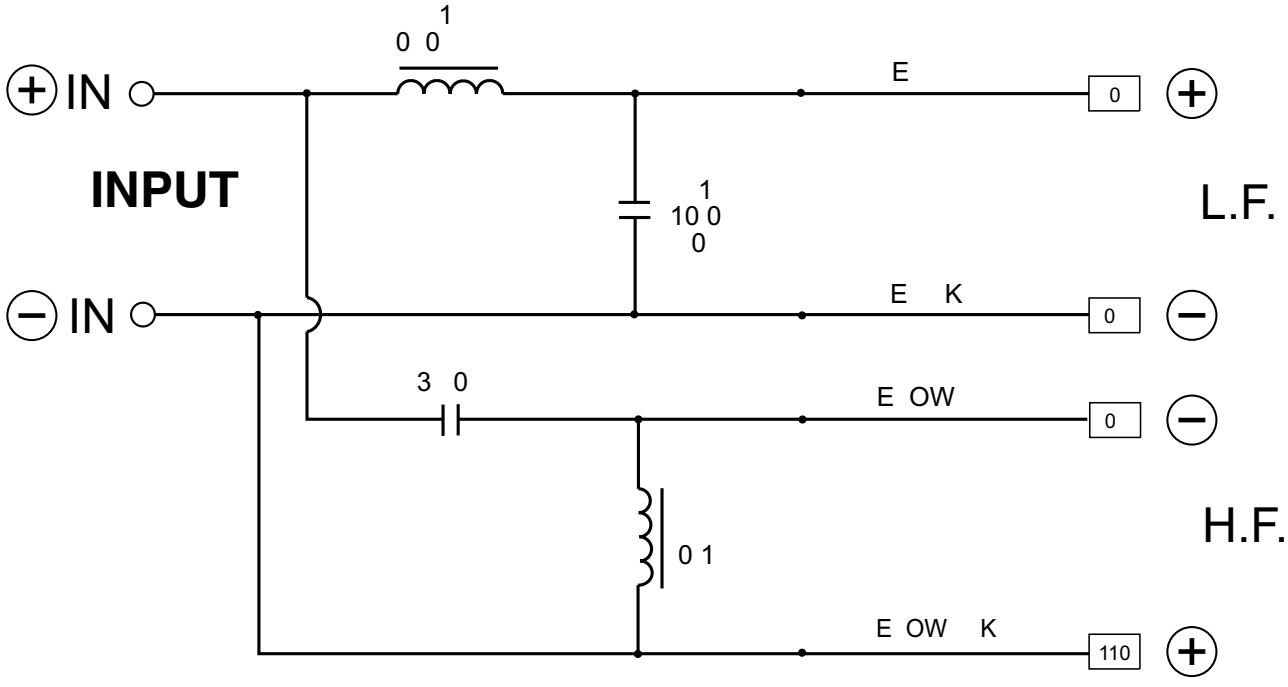
Festival 60 SPEAKER WIRING



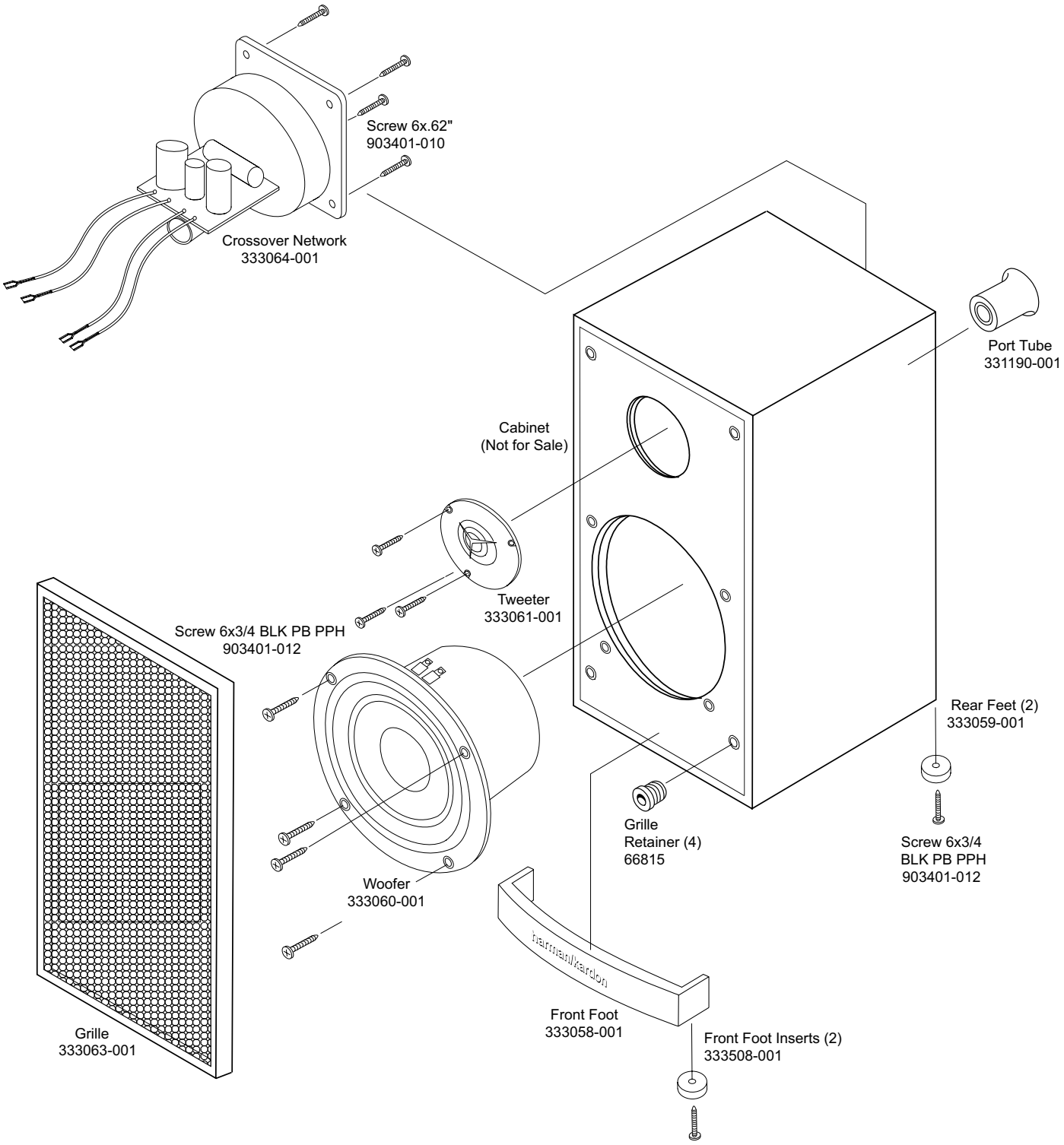


Festival 80 SPEAKER WIRING

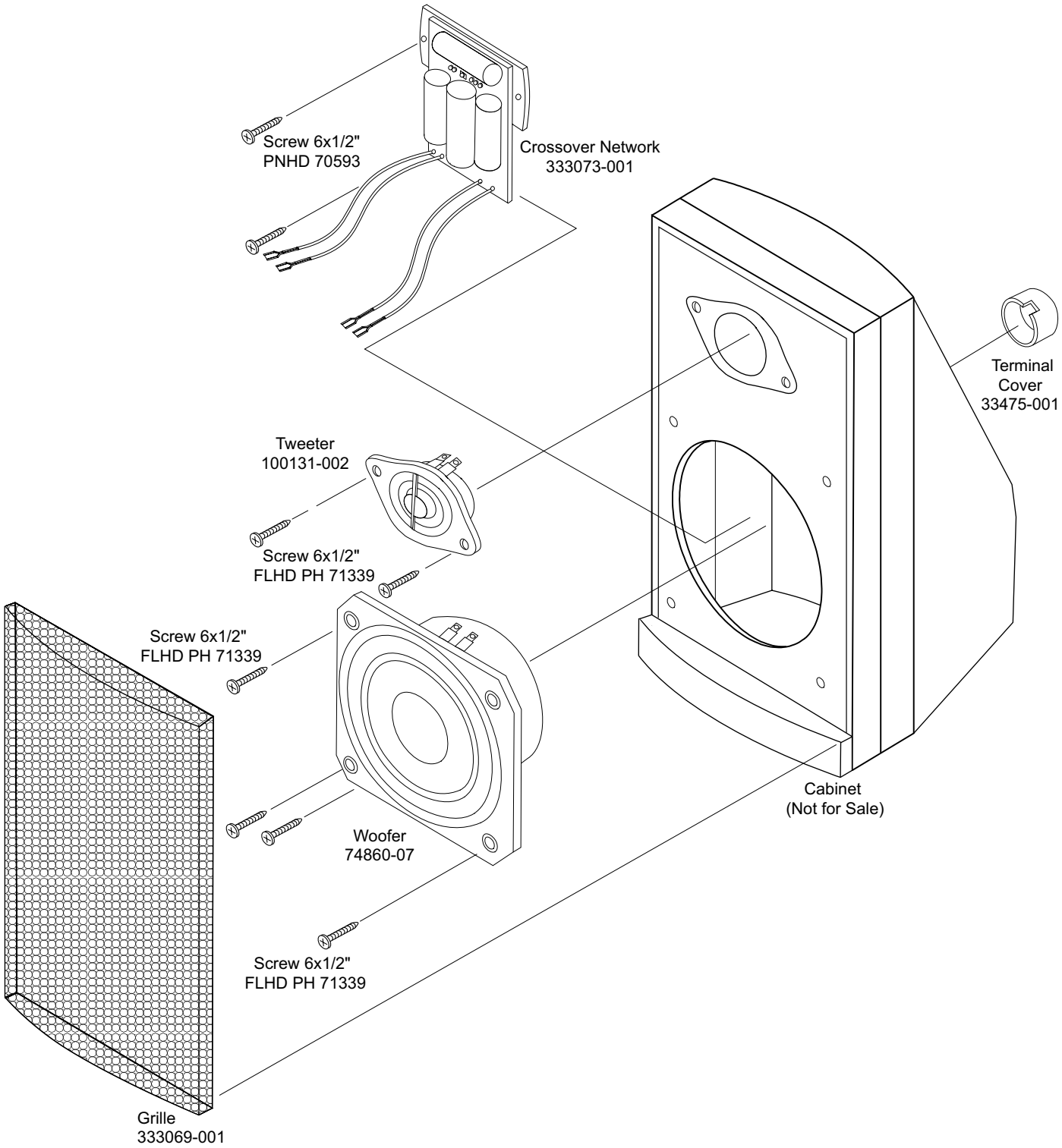




Festival 60 SPEAKER MECHANICAL ASSEMBLY



Festival 80 SPEAKER MECHANICAL ASSEMBLY



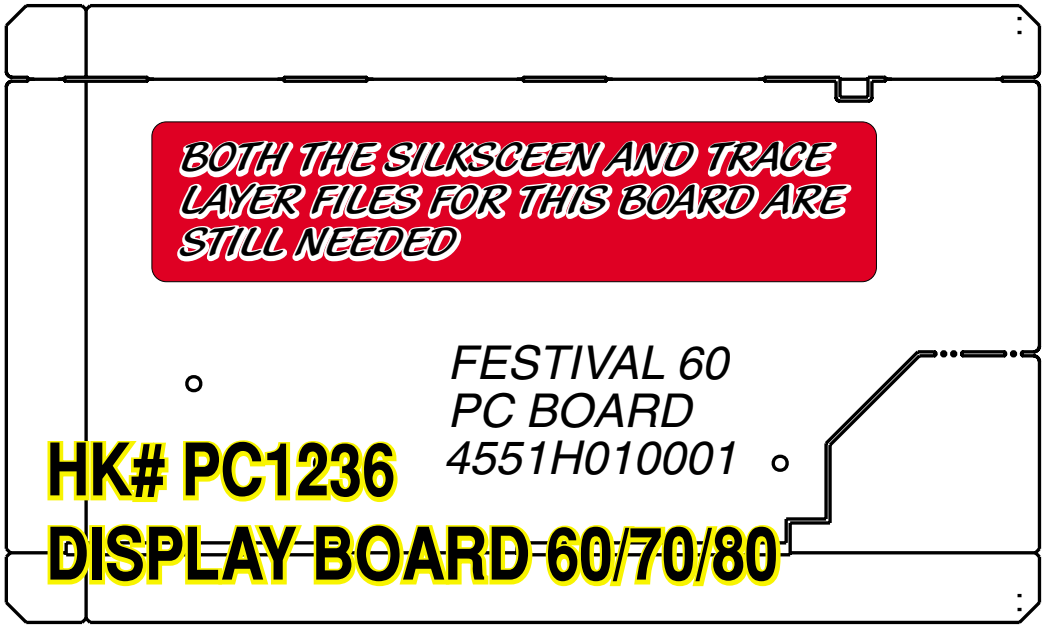
FUSE MATRIX

	Assembly	Ref Des	Description	HCM Part No.	Used on Board ("SA" BOM)	PC Board Part No.
CIS1001 Festival-60 (US) (120V 60Hz)	Amp Primary Board	F1	2.5A, 125V	FS1084	SA1080	CL1184
	Top Unit	F51	0.5A, 250V	FS1089	SA1086	CL1236
CIS1003 Festival-60 (EU) (230V 50Hz)	Amp Primary Board	F1	T1.6A, 250V	FS1072	SA1801	CL1184
	Top Unit	F51	T0.5A, 250V	FS1090	SA1798	CL1236
CIS1004 Festival-70 (EU) (230V 50Hz)	Amp #1 Primary Bd.	F1	T1.6A, 250V	FS1072	SA1801	CL1184
	Amp #2 Primary Bd.	F1001	T1.6A, 250V	FS1072	SA1822	CL1235
	Top Unit	F51	T0.5A, 250V	FS1090	SA1799	CL1236
CIS1002 Festival-80 (US) (120V 60Hz)	Bass Amp Board	F401	T6.3A, 250V	FS1074	SA1740	CL1230
		F402	T6.3A, 250V	FS1074	SA1740	CL1230
	Sub CS Board	F701	T6.3A, 250V	FS1074	SA1739	CL1228
		F702	T6.3A, 250V	FS1074	SA1739	CL1228
	Sub L/R Board	F501	T6.3A, 250V	FS1074	SA1738	CL1228
		F502	T6.3A, 250V	FS1074	SA1738	CL1228
	Filter/Terminal Bd.	F201	8A, 125V	FS1092	SA1741	CL1230
		F301	T0.5A, 250V	FS1090	SA1741	CL1230
		F302	T0.5A, 250V	FS1090	SA1741	CL1230
	Top Unit	F51	0.5A, 250V	FS1089	SA1746	CL1236
CIS1005 Festival-80 (EU) (230V 50Hz)	Bass Amp Board	F401	T6.3A, 250V	FS1074	SA1789	CL1230
		F402	T6.3A, 250V	FS1074	SA1789	CL1230
	Sub CS Board	F701	T6.3A, 250V	FS1074	SA1788	CL1228
		F702	T6.3A, 250V	FS1074	SA1788	CL1228
	Sub L/R Board	F501	T6.3A, 250V	FS1074	SA1787	CL1228
		F502	T6.3A, 250V	FS1074	SA1787	CL1228
	Filter/Terminal Bd.	F201	T4A, 250V	FS1093	SA1790	CL1230
		F301	T0.5A, 250V	FS1090	SA1790	CL1230
		F302	T0.5A, 250V	FS1090	SA1790	CL1230
	Top Unit	F51	T0.5A, 250V	FS1090	SA1805	CL1236

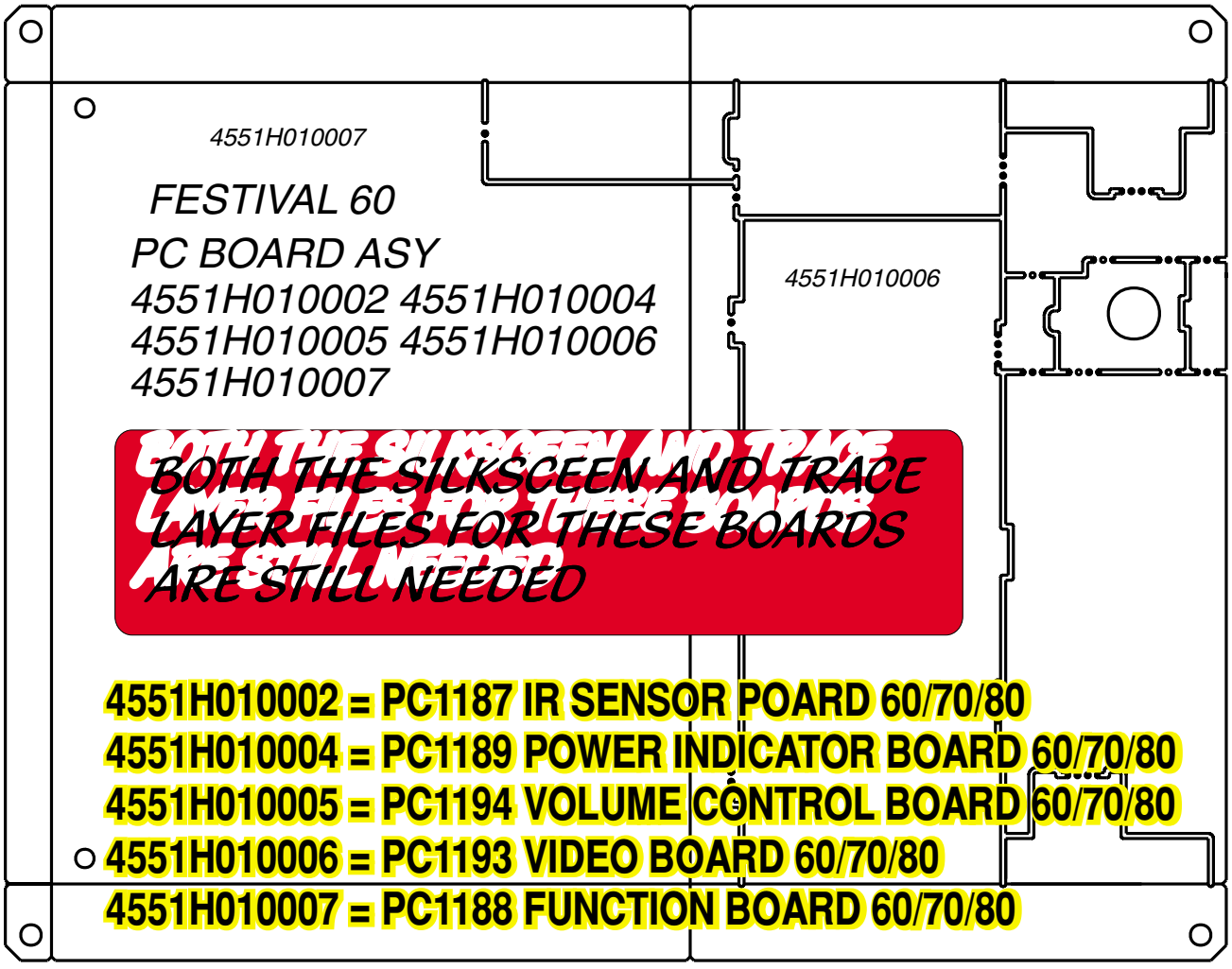
PCB MATRIX

Description	HCM Board #	WHERE USED				
		F60-US	F60-EU	F70-EU	F80-US	F80-EU
Festival-60 Amp Main Board	PC1184	SA1806	SA1807	SA1808	n/a	n/a
Festival-60 Amp Indicator Board	PC1185				n/a	n/a
Festival-60 Amp Primary Board	PC1186				n/a	n/a
Festival-60 Amp Secondary Board	PC1196				n/a	n/a
Filter / Terminal Board (Fest-80)	PC1230	n/a	n/a	n/a	SA1781	SA1783
Bass Amp (Festival-80)	PC1231	n/a	n/a	n/a		
SubLR Amp (Festival-80)	PC1228	n/a	n/a	n/a	SA1780	SA1782
SubCS Amp (Festival-80)	PC1229	n/a	n/a	n/a		
CD Indicator Board (CD Unit)	PC1182	not used	not used	not used	not used	not used
CD Connector Board (CD Unit)	PC1183					
CD Main Board (CD Unit)	PC1181	SA1898	SA1898	SA1898	SA1898	SA1898
		was SA1082			was SA1082	
Display Board (Top Unit) 80-pin QFPP	PC1187	not used	not used	not used	not used	not used
IR Sensor Board (Top Unit)	PC1190	SA1810	SA1810	SA1811	SA1811	SA1811
Power Indicator Board (Top Unit)	PC1189					
Volume Control Board (Top Unit)	PC1194					
Video Board (Top Unit)	PC1193					
Function Board (Top Unit)	PC1188					
Pre-Amp Board, Festival-60	PC1192	not used	not used	not used	not used	not used
Headphone Jack Board	PC1191					
Tuner Board (CD Unit)	PC1180	SA1084	SA1800	SA1800	SA1084	SA1800
			was SA1897	was SA1897		was SA1897
Amp #2 Main Board (Fest-70)	n/a	n/a	n/a	SA1809	n/a	n/a
Amp #2 Primary Board (Fest-70)	n/a					
Amp #2 Secondary Bd (Fest-70)	n/a					
Amp #2 Indicator Board (Fest-70)	n/a					
Amp #2 Sub-Amp Bd (Fest'70)	n/a					
Display Board (Top Unit) 68-pin PLCC	PC1236	SA1825	SA1826	SA1826	SA1825	SA1826
Pre-Amp Board, Festival-60/70/80	n/a	SA1086	SA1798	SA1799	SA1746	SA1805
Headphone Board	n/a					
CD Indicator Cluster (5 boards)	n/a	SA1085	SA1085	SA1085	SA1085	SA1085
CD Connector Cluster (5 boards)	n/a	SA1083	SA1083	SA1083	SA1083	SA1083

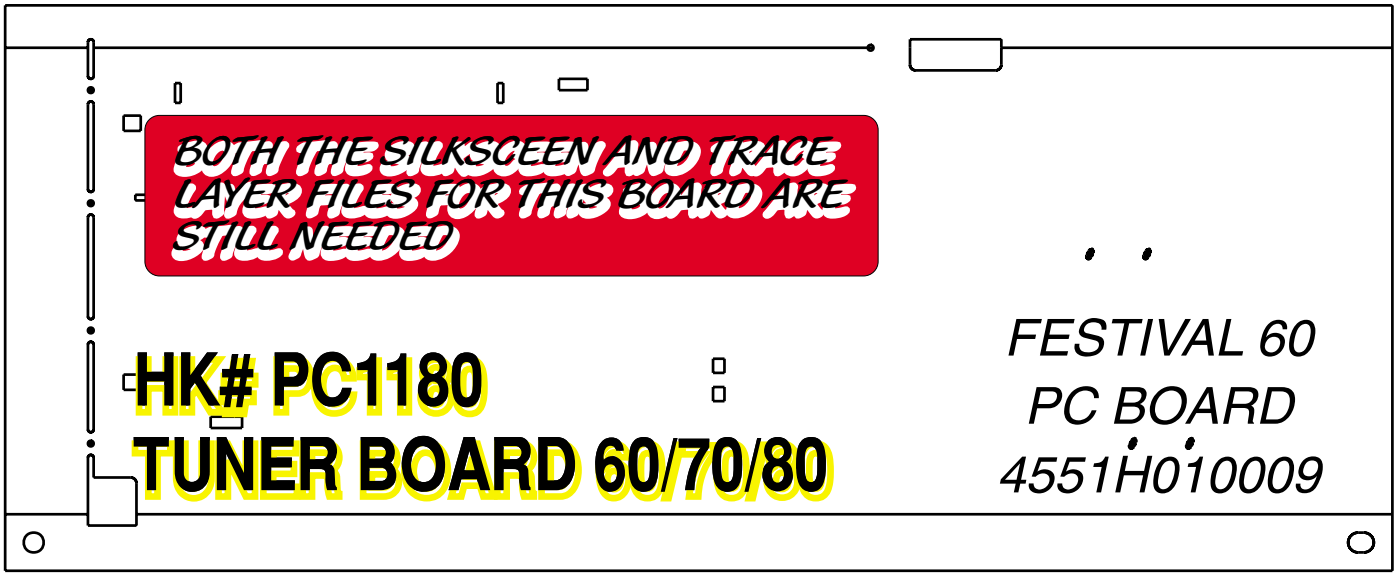
FESTIVAL 60 DISPLAY BOARD



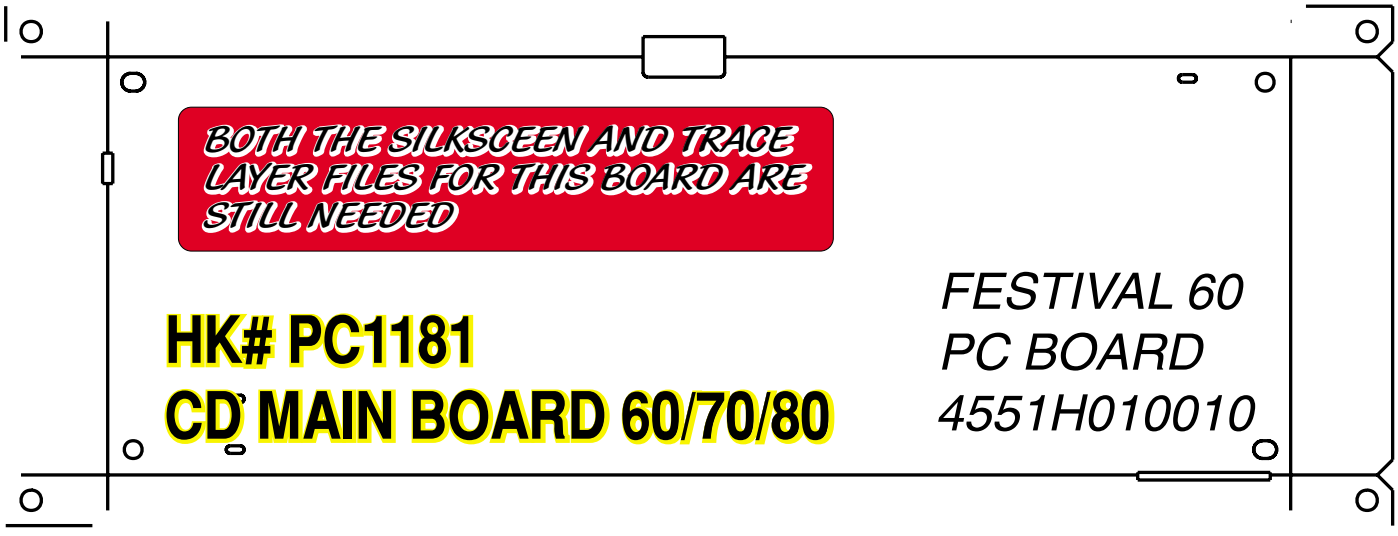
FESTIVAL 60/80 IR SENSOR, POWER INDICATOR, VOLUME CONTROL, VIDEO & FUNCTION BOARDS


4551H010007
FESTIVAL 60
PC BOARD ASY
4551H010002 4551H010004
4551H010005 4551H010006
4551H010007
4551H010006
BOTH THE SILKSCEEN AND TRACE LAYER FILES FOR THESE BOARDS ARE STILL NEEDED
4551H010002 = PC1187 IR SENSOR POARD 60/70/80
4551H010004 = PC1189 POWER INDICATOR BOARD 60/70/80
4551H010005 = PC1194 VOLUME CONTROL BOARD 60/70/80
4551H010006 = PC1193 VIDEO BOARD 60/70/80
4551H010007 = PC1188 FUNCTION BOARD 60/70/80

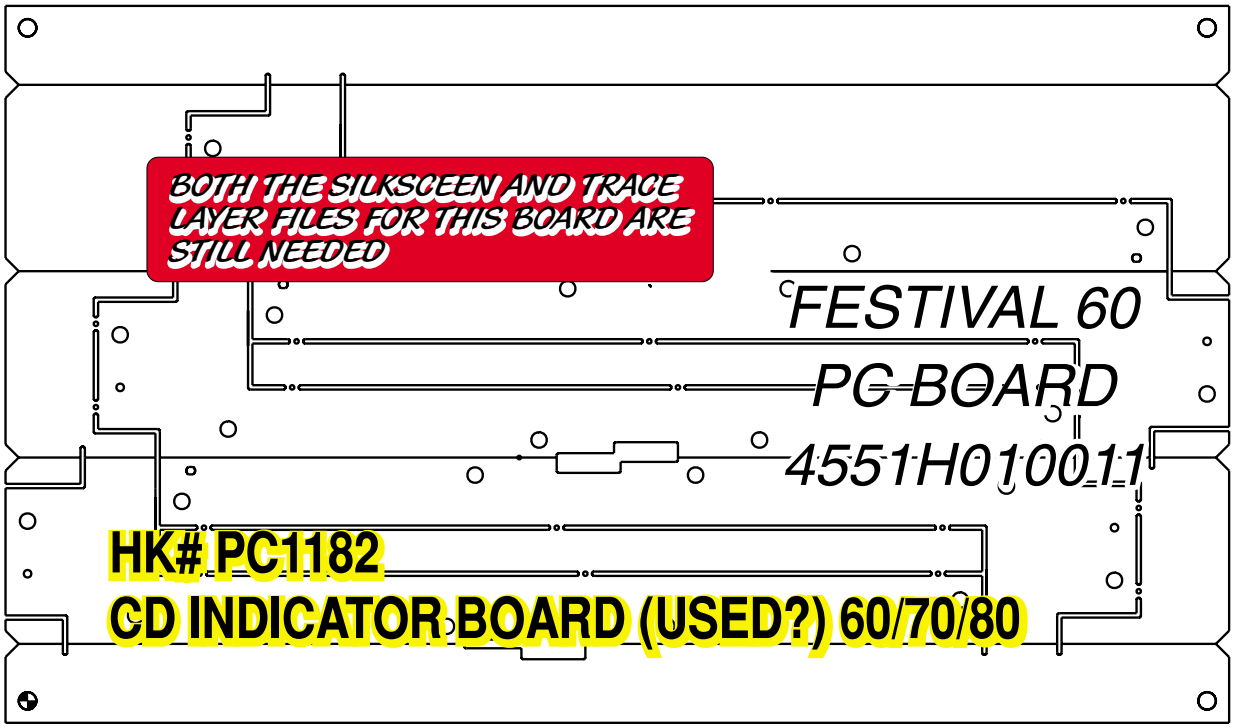
FESTIVAL 60/80 TUNER BOARD



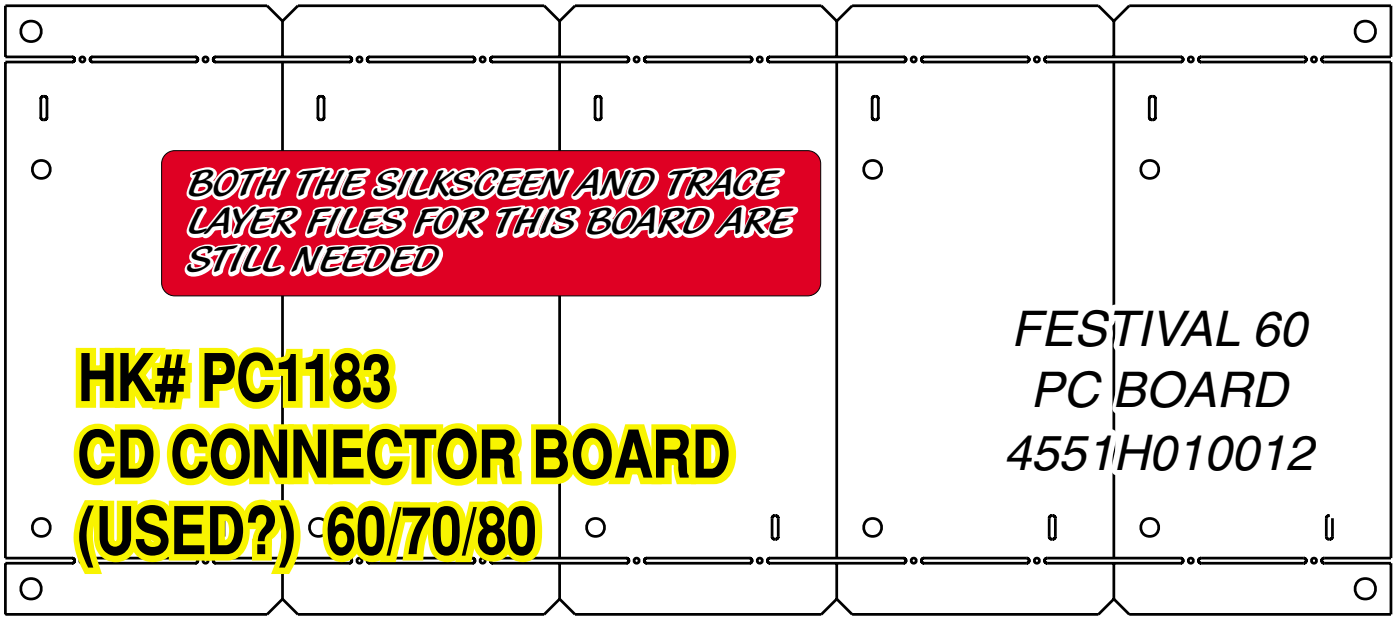
FESTIVAL 60/80 CD MAIN BOARD


BOTH THE SILKSCEEN AND TRACE LAYER FILES FOR THIS BOARD ARE STILL NEEDED
HK# PC1181
CD MAIN BOARD 60/70/80
FESTIVAL 60
PC BOARD
4551H010010

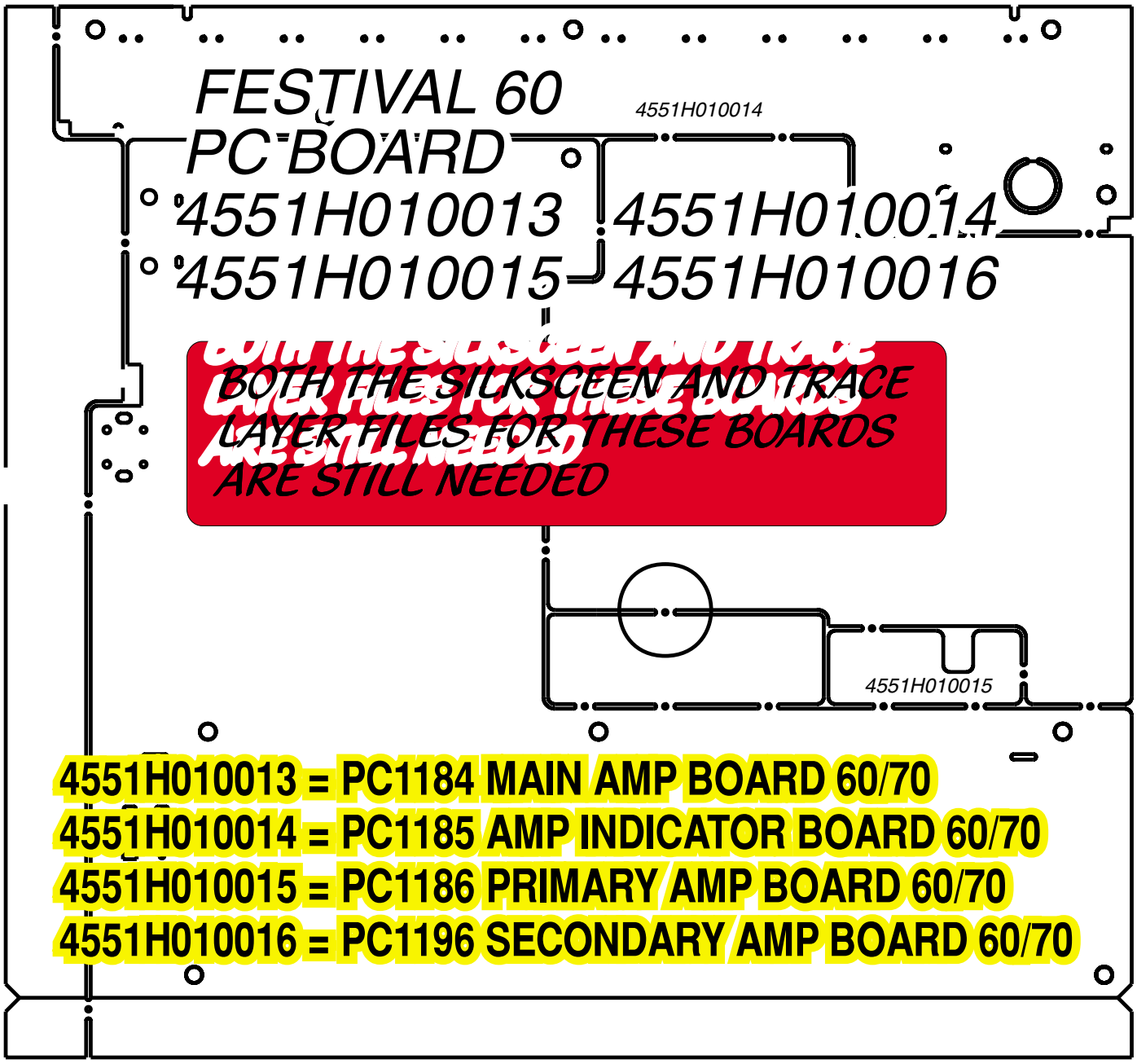
FESTIVAL 60/80 CD INDICATOR BOARD


BOTH THE SILKSCEEN AND TRACE LAYER FILES FOR THIS BOARD ARE STILL NEEDED
FESTIVAL 60
PC BOARD
4551H010011
HK# PC1182
CD INDICATOR BOARD (USED?) 60/70/80

FESTIVAL 60/80 CD CONNECTOR BOARD



FESTIVAL 60 MAIN AMP, AMP INDICATOR, PRIMARY AMP & SECONDARY AMP BOARDS



FESTIVAL 80 FILTER/TERMINAL & BASS AMP BOARDS

FESTIVAL 80
PC BOARD
4551H010021
4551H010022

4551H010021 = PC1230 FILTER TERMINAL BOARD 80
4551H010022 = PC1231 BASS AMP BOARD 80

BOTH THE SILKSCEEN AND TRACE LAYER FILES FOR THESE BOARDS ARE STILL NEEDED

FESTIVAL 80 SubLR AMP & SubCS AMP BOARDS

FESTIVAL 80
PC BOARD
4551H010023
4551H010024
BOTH THE SILKSCEEN AND TRACE LAYER FILES FOR THESE BOARDS ARE STILL NEEDED
4551H010023 = PC1228 SUBLR AMP BOARD 80
4551H010024 = PC1229 SUBCS AMP BOARD 80

FESTIVAL 60/80 PRE-AMP BOARD

FESTIVAL 60/80 HEADPHONE BOARD

FESTIVAL 60/80 ELECTRICAL PARTS LISTS

SA1078 AMP MAIN PCB ASSY

Ref.#	Part #	Description	Qty
C1	CP1843	CAP.CERAM, 4700pF, 250V	1
C4, 5	CP1810	CAP. ELECT. 10,000uF, 50V	1
C7	CP1697	CAP, ELECT. 100uF, 16V	1
C8	CP1706	Electrolytic Cap. 1uF 50V	1
C9, 10	CP1817	Cap Poly Film 68nF 5% 50V	2
C11, 12, 413, 414, 423, 424	CP1707	Electrolytic Cap. 10uF 50V	6
C15	CP1698	Electrolytic Cap. 22uF 16V	1
C401, 402	CP1701	Electrolytic Cap. 47uF 16V	2
C403, 404	CP1750	Ceramic Cap. 68pF 50V	2
C405, 406	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V	2
C407, 408	CP1695	CAP, ELECT, 470uF, 6.3V	2
C409, 410, 425, 426	CP1878	CAPACITOR 10pF 50V	4
C411, 412	CP1749	Ceramic Cap. 100pF 50V	2
C415, 416, 417, 418, 419, 420, 421, 422	CP1717	CAP, MTL.FILM, 0.1uF, 50V	8
C427, 428	CP1695	CAP, ELECT, 470uF, 6.3V	2

Diodes

D1	DI1189	Bridge Diode 200V 4A	1
D10	DI1192	Zener Diode 0.4W (T/R,2"")	1
D13	DI1214	DIODE ZENER	1
D2, 3	DI1197	Switching Diode	2
D8, 9, 11, 12, 401, 402	DI1205	Switching Diode 90V 0.3W	6
R19, 20	RS2252	RES C/F MINI 560 ohm 5%, 1/4W	2

Resistors

R2, 3, 423, 424, 425, 426, 431, 432	RS2176	RES FUSE 560 ohm 5% 1/4W	8
R4, 46, 479	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	3
R5, 10, 445, 446	RS2234	RES C/F MINI 2.2Kohm 5%, 1/4W	4
R6	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	1
R7, 13, 22, 23, 31	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	5
R8	RS2256	RES C/F MINI 68Kohm 5%, 1/4W	1
R9	RS2241	RES C/F MINI 33Kohm 5%, 1/4W	1
R11, 12	RS2287	RES C/F 6.8Kohm 5% 1/3W	2
R14	RS2235	RES C/F MINI 22Kohm 5%, 1/4W	1
R15, 16, 17, 18	RS2229	RES C/F MINI 1.5Kohm 5%, 1/4W	4
R21	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	1
R24	RS2243	RES C/F MINI 3.3Mohm 5%, 1/4W	1
R34	RS2382	RES C/F MINI 1.8Kohm 5%, 1/4W	1
R35	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	1
R33	RS2410	RES C/F 82Kohm 5% 1/3W	1
R48, 443, 444	RS2401	RES C/F MINI 1.2Kohm 5%, 1/4W	3
R401, 402	RS2261	RES C/F 1Kohm 5% 1/3W	3
R403, 404, 419, 420	RS2312	RES C/F 33Kohm 5% 1/3W	4
R405, 406, 407, 408	RS2326	RES C/F 220 ohm 5% 1/3W	4
R409, 410, 411, 412	RS2262	RES C/F 1.5Kohm 5% 1/3W	4
R413, 414	RS2237	RES C/F MINI 270 ohm 5%, 1/4W	2
R415, 416, 417, 418	RS2171	RES FUSE 10 ohm 5% 1/4W	4
R421, 422	RS2264	RES C/F 1.6Kohm 5% 1/3W	2
R427, 428	RS2390	RES FUSE 560 ohm 2% 1/4W	2
R429, 430	RS2383	RES C/F 560 ohm 5% 1/6W	2
R433, 434, 435, 436	RS2172	RES FUSE 100 ohm 5% 1/4W	4
R437, 438, 439, 440	RS2263	RES C/F 15Kohm 5% 1/3W	4
R441, 442	RS2265	RES C/F 2.2Kohm 5% 1/3W	2
R447 ,448	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	2
R449, 450, 451, 452, 461, 462	RS2167	RES FUSE 100 ohm 2% 1/4W	6
R453, 454, 455, 456	RS2168	RES FUSE 15 ohm 2% 1/4W	4
R457, 458, 459, 460	RS2169	RES FUSE 2.2 ohm 5% 1/4W	4
R463, 464, 465, 466	RS2271	RES M/0 F/R 0.22ohm 5% 3W	4
R467, 468	RS2397	RES M/O F/R 10 ohm 5% 2W	2
R469, 470	RS2428	RES FUSE 330 ohm 5% 1/6W	2
R471, 472	RS2253	RES C/F MINI 5.6Kohm 5%, 1/4W	2
R473, 474, 475, 476	RS2280	RES C/F MINI 82 ohm 5%, 1/4W	4
R477, 478	RS2236	RES C/F MINI 220Kohm 5%, 1/4W	2

Transistors

Q1, 3, 8, 10, 11, 13, 407, 408	TR1291	NPN XSTR 50V/200mA 300mW 250500 TO-92	8
Q2, 7	TR1290	PNP XSTR 50V/200mA 300mW 250500 TO-92MICRO AMMO	2
Q4, 417, 418	TR1284	NPN XSTR 120V/100mA 300mW 350700 TO-92 AMMO PACK	3
Q5, 6, 409, 410, 411, 412	TR1280	PNP XSTR 120V/100mA 300mW 350700 TO-92 AMMO PACK	
Q401, 402, 403, 404, 405, 406, 419, 420	TR1286	NPN XSTR 90V/50mA 300mW 6001200 TO-92 AMMO PAC	8
Q429, 430	TR1326	NPN XSTR 140V/10A 100W 80160 2-16C1A BULK	2
Q433, 434	TR1279	N-CH FET 50V/6.5mA 300mW TO-92 AMMO PACK	2
Q423, 424, 425, 426	TR1287	PNP XSTR 100V/1A 900mW 100200 TO-92M AMMO PAC	4
Q431, 432	TR1319	PNP XSTR 140V/10A 100W 80160 2-16C1A BULK	2
Q421, 422, 427,	TR1289	NPN XSTR 100V/1A 900mW 100200 TO-92	3
Q415, 416	TR1228	TRANSISTOR, 150V, 1W	2
Q413, 414	TR1227	PNP XSTR 150V/100mA 900mW	2

Ref.#	Part #	Description	Qty
Q9	TR1324	NPN XSTR 25V/1.5A 900mW 6001200 TO-92	1
Q12	TR1330	PNP XSTR 120V/800mA 900mW 80160 TO-92	1

Connectors

CN401	CO1366	Connector 2P 7.92mm 7A 250V	1
CN403	CO1384	Connector	1
CN404	CO1368	Connector 3P 3.96mm 7A 250V	1
CN405	CO1367	Connector 3P 2mm 2A 100V	1
CN406	CO1402	CONNECTOR 34-POS	1
CN407	CO1373	Connector 2.5A 250V	1

Miscellaneous

JP1-8, 10, 11, 13-25, 27-29, 3, 49-60, 69, 71-73, (ADJ Q40), (ADJ J401), (ADJ D9), (ADJ RL1)	WI1702	JUMPER WIRE 24 AWG BARE	62
PH1	IC1240	Photocoupler 70V 0.15W	1
PJ401	CO1386	Pin Jack	1
RL1	RE1022	Relay	1
TM401	TE1195	Terminal 4P	1
TM402	TE1197	Terminal Prime-Time	1
VR401, 402	RS2289	POT. TRIM. 1K-OHM	2
	SC1262	(MOUNT D1 TO HEATSINK) SCREW, BND + (M3x10)	1
	HS1156	(USE WITH D1) Heatsink Festival	1

SA1079 AMP INDICATOR PCB ASSY

CW405	HA1160	HARNESS 300mm 3P-SA	1
D21, 22, 23, 24	LE1037	LED	4
JP9, 12	WI1702	JUMPER WIRE 24 AWG BARE	2
R25, 26, 27, 28	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	4
R29, 30, 39, 40	RS2229	RES C/F MINI 1.5Kohm 5%, 1/4W	4

SA1080 AMP PRIMARY PCB

CW401	HA1119	Connect. Wire 300mm	1
F1	FS1084	Fuse 2.5A AC 125V	1
HL1, 2	FH1007	Fuse Holder	2

SA1081 AMP SECONDARY PCB

C2, 3	CP1717	CAP, MTL.FILM, 0.1uF, 50V	2
C13, 14	CP1699	CAP, ELEC; 220uF 16V	2
CW403	HA1159	HARNESS 120mm 2P-SA	1
CW404	HA1191	HARNESS ASSY	1
D4, D5, D6, D7	DI1201	Diode Rectifier 1 A 400V	4
R43, 44	RS2384	RES FUSE 2.2 ohm 5% 1/4W	2

Ref.#	Part #	Description	Qty

SA1083 CD CONNECTOR PCB

C601	CP1821	CAP., CHIP 0.1uF 50V	1
CN601_2	CO1404	CONNECTOR 2mm 2A 100V	1
CN602_2	CO1405	CONNECTOR	1
CN603	CO1403	CONNECTOR 34-POS	1
EF601, 602, 603, 604	FI1015	EMI FILTER	4
FB601, 602, 603	FI1016	EMI FILTER	3
PCB601	CL1194	CLUSTER CD CONNECTOR BD	1
TM601	TE1197	Terminal Prime-Time	1

SA1084 TUNER PCB

Capacitors

C201, 207, 217, 235, 237, 252	CP1769	Semiconductor Cap. 0.047uF, 25V	6
C202, 305, 310	CP1701	Electrolytic Cap. 47uF 16V	3
C204, 205, 206 215, 231, 238, 239, 273, 306	CP1741	Ceramic Cap. 0.022uF 50V	9
C216, 240, 242, 258, 261, 262, 263	CP1707	Electrolytic Cap. 10uF 50V	7
C220	CP1776	Capacitor Ceramic 15pF 50V, 5%	1
C232, 234	CP1711	Electrolytic Cap. 4.7uF 50V	2
C233, 253, 255, 256	CP1706	Electrolytic Cap. 1uF 50V	4
C236	CP1778	Cap. Ceramic 4700pF 50V 10%	1
C241	CP1710	CAP, ELEC; 3.3uF 50V	1
C243, 246, 277	CP1742	Ceramic Cap. 220pF 50V	1
C245, 278, 279, 303, 304	CP1745	Ceramic Cap. 15pF 50V	5
C251, 274	CP1697	CAP, ELECT. 100uF, 16V	2
C254	CP1693	CAP, ELEC; 0.22uF 50V	1
C259, 260	CP1824	Ceramic Cap. 470pF 50V	2
C271, 307	CP1709	Electrolytic Cap. 2.2uF 50V	2
C272	CP1699	CAP, ELEC; 220uF 16V	1
C275, 276	CP1749	Ceramic Cap. 100pF 50V	1
C301, 302	CP1743	Ceramic Cap. 330pF 50V	2
C308	CP1795	CAP, ELEC; 0.1uF 50V	1
C309	CP1744	Ceramic Cap. 560pF 50V	1

Diodes

D231, 251, 271, 273	DI1205	Switching Diode 90V 0.3W	3

Filters

CF201, 202, 203	FI1009	Ceramic Filter 10.7MHz 180KHZ	3
L231	FI1005	LC COMPOSITE, VARIABLE COIL	1
L251, 252	FI1008	FILTER,AUDIO LC, VARIABLE	2

Ref.#	Part #	Description	Qty
RF215	RF1002	RF Block	1
T231	IF1001	IF BLOCK 450KHZ, CERAMIC FILTER W/ MATCHING COIL	1
T232	MI1178	Discri(Type KM)10.7MHz	1
T233	MI1177	Discri(Type 7KM) 107MHz	1

Integrated Circuits

IC231	IC1267	IC	1
IC251	IC1268	IC	1
IC271	IC1233	IC	1
IC301	IC1230	IC, RADIO DATA SYSTEM DEMODULATOR	1
IC302	IC1237	IC	1

Resistors

R201, 204, 205, 210, 237, 272, 274, 276, 277, 278	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	10
R202, 203, 211, 213	RS2332	RES C/F MINI 390 ohm 5%, 1/4W	4
R206, 212	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	2
R207, 208, 214	RS2222	RES C/F MINI 100 ohm 5%, 1/4W	3
R209	RS2248	RES C/F MINI 470 ohm 5%, 1/4W	1
R217	RS2230	RES C/F MINI 15Kohm 5%, 1/4W	1
R220, 304, 305 306	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	4
R231	RS2256	RES C/F MINI 68Kohm 5%, 1/4W	1
R232	RS2277	RES C/F MINI 270Kohm 5%, 1/4W	1
R233	RS2275	RES C/F MINI 180 ohm 5%, 1/4W	1
R234	RS2253	RES C/F MINI 5.6Kohm 5%, 1/4W	1
R235, 240	RS2231	RES C/F MINI 18Kohm 5%, 1/4W 1/4W AMMO PACK	2
R236	RS2280	RES C/F MINI 82 ohm 5%, 1/4W	1
R238	RS2374	RES C/F MINI 12Kohm 5%, 1/4W	1
R239, 282	RS2291	RES C/F MINI 27Kohm 5%, 1/4W	2
R241, 252, 263, 264	RS2240	RES C/F MINI 3.3Kohm 5%	4
R242, 243, 246, 253, 260, 281, 283, 302, 303	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	9
R245	RS2233	RES C/F MINI 22 ohm 5%, 1/4W	1
R247, 251, 256	RS2318	RES C/F MINI 6.8Kohm 5%, 1/4W	3
R254, 255	RS2329	RES C/F MINI 150Kohm 5%, 1/4W	2
R258, 259	RS2236	RES C/F MINI 220Kohm 5%, 1/4W	2
R261, 262	RS2229	RES C/F MINI 1.5Kohm 5%, 1/4W	2
R265, 266, 267, 268, 307	RS2234	RES C/F MINI 2.2Kohm 5%, 1/4W	5
R271, 273	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	2
R280	RS2250	RES C/F MINI 47Kohm 5%, 1/4W	1
R301	RS2226	RES C/F MIN 1Mohm 5% 1/4W	1

Transistors

Q201, 202	TR1276	NPN XSTR 25V/50mA 300MHz 82180 SPT	2
Q251, 252	TR1277	NPN XSTR 20V/500mA 500mW 8201800	2
Q253	TR1268	NPN XSTR 50V/30mA 300mW 22K/22K SPT	1
Q254	TR1269	PNP XSTR 50V/30mA 300mW 22K/22K SPT	1
Q271, 272, 274	TR1272	PNP XSTR 50V/100mA 300mW 4.7K/4.7K SPT AMMO PACK	3
Q301	TR1279	N-CH FET 50V/6.5mA 300mW	1
Q302	TR1278	PNP XSTR 50V/150mA 300mW 180390 SPT	1
Q303	TR1273	NPN XSTR 50V/100mA 300mW 4.7K/4.7K SPT	3

Miscellaneous

CF231	CR1004	Ceramic Resonator 450KHz	1
CF251	CR1005	Ceramic Osc	1
JP201-JP226, JP228-JP25	WI1702	JUMPER WIRE 24 AWG BARE JP209A SELECTS DOMESTIC VERSION DO NOT INSTALL JP209B	54
LCN251	HA1173	HARNESS, WIRE 13P	1
LCN301	HA1193	HARNESS ASSY	1
PCB201	PC1180	PCB CD Tuner	1
TM201	TE1204	Terminal	1
TU201	TU1001	FM Tuner Prime-Time	1
VR231	RS2189	POT, TRIMMER, 50K OHM	1
VR251	RS2420	TRIM-POT 200Kohm	1
X271	XT1003	XTAL.OSC 4500KHz	1
X301	XT1002	Xtal.OSC 4332KHz Prm-time	1
X302	CR1001	Ceralock 4MHz Prime-Time	1
	BR1543	STEEL SHIELD PLATE	1
	LB1265	Bar Code Traceability Label	1

SA1086 “PRE-AMP PCB, FEST-60 US”

Capacitors

C51, 52, 57	CP1700	Electrolytic Cap. 2200uF, 16V	3
C55, 56, 58	CP1706	Electrolytic Cap. 1uF 50V	3
C59, 61	CP1863	ELECTROLYTIC CAP. 220uF, 63V	2
C64, 573, 608	CP1697	CAP, ELECT. 100uF, 16V	3
C67, 574, 575, 576, 577, 578, 579, 590, 591, 595, 596, 597, 598, 599, 600, 607	CP1911	SMD CAP 0.1uF 10% 25V	16
C68, 588	CP1725	Metallized Flm Cap. 0.22uF, 50V	2
C70, 71	CP1843	CAP.CERAM, 4700pF, 250V	2
C72, 73, 74, 75, 76, 77, 78, 507, 508, 523, 524, 605, 606, 632, 641, 642	CP1722	Metallized Flm Cap. 0.01uF, 50V	16
C501, 502, 511, 512, 515, 516, 517, 518, 541,	CP1701	Electrolytic Cap. 47uF 16V	18

Ref.#	Part #	Description	Qty
542, 543, 544, 547, 548, 581, 601, 602, 634			
C503, 504	CP1732	Pol. Prop. Flm Cap. 1500pF, 50V	2
C505, 506	CP1717	CAP, MTL.FILM, 0.1uF, 50V	2
C513, 514	CP1777	CAPACITOR CERAMIC 22pF 50V 5%	2
C519, 520	CP1815	Cap Poly Film 15nF 5% 50V	2
C521, 522	CP1817	Cap Poly Film 68nF 5% 50V	2
C525, 526, 549, 550, 551, 552	CP1719	Metalized Flm Cap 0.039uF, 50V	6
C535, 536	CP1702	Electrolytic Cap. 470uF 16V	2
C537, 538	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V	2
C568, 569, 570, 582, 583, 584, 585, 586	CP1733	Pol. Prop. Flm Cap 220pF, 50V	9
C571, 589	CP1707	Electrolytic Cap. 10uF 50V	2
C592, 593	CP1887	SMD CAP 15pF 5% 50V	2
C594	CP1878	CAPACITOR 10pF 50V	1
C609	CP1757	CERAMIC CAP 0.01uF 50V	1
C636	CP1711	Electrolytic Cap. 4.7uF 50V	1
C651, 652	CP1891	(on Headphone Board) CAPACITOR 680pF 10% 50V	2

Diodes

D51, 52, 53, 54, 55, 56, 57, 58, 63, 64	DI1201	Diode Rectifier 1 A 400V	10
D60, 61	DI1204	Zener Diode 0.4W	2
D62	DI1192	Zener Diode 0.4W (T/R,2"")	1
D65, 66, 581, 582, 585, 586, 587, 588, 589	DI1205	Switching Diode 90V 0.3W	9
D67, 584, 631	DI1196	Zener Diode 0.4W	3
D591, 592, 593, 594	DI1206	Switching Diode 40V 0.3W	4

Filters

EF501, 502, 503, 504, 508, 509, 510	FI1018	FILTER, EMI	7
EF505, 506, 507	FI1017	EMI FILTER 4-CIRCUIT	3
EF511, 512, 601, 602, 603, 604	FI1014	FILTER EMI	6
L51	FI1020	EMI FILTER	1
L52	FI1013	FILTER EMI	1

Integrated Circuits

IC51	IC1232	IC Voltage Regulator +6VDC	1
IC52	IC1234	IC Voltage Regulator -6VDC	1
IC53	IC1307	IC VOLTAGE REGULATOR +5V, TO-220	1
IC591	IC1313	IC QUAD LOW-PWR LINE DRIVER	1
IC501	IC1245	IC ELECTRICAL VOLUME	1
IC503	IC1248	IC	1
IC504, 505, 506	IC1226	IC	3
IC581	IC1219	IC Prime-Time	1
IC582	IC1320	IC EPROM 128K x 8 DIP32	1
IC583	IC1259	IC SMD 32KBYTE CMOS STAT. RAM	1
IC584	IC1265	IC LOW PWR CLOCK/CALENDAR	1
IC585	IC1277	IC, EEPROM, 256x8, CMOS SERIAL BUS	1
IC586	IC1254	IC SMD OCTAL-D-TYPE LATCH	1
IC587	IC1270	IC SMD DUAL 2-to-4 LINE DECODER	1
IC589, 590	IC1269	IC	2
IC592	IC1283	IC SMD DUAL 2-INPUT AND GATE	1
IC595	IC1236	IC	1
IC601	IC1262	IC	1
PH591	IC1241	Photocoupler	1

Resistors

R50	RS2415	RES C/F 3.3Mohm 10% 1/2W	1
R51	RS2261	RES C/F 1Kohm 5% 1/3W	1
R52, 640	RS2341	RES C/F 100 ohm 5% 1/3W	2
R53	RS2389	RES C/F 4.7Kohm 5% 1/3W	1
R55	RS2315	RES FUSE 4.7 ohm 2% 1/4W	1
R61, 63, 527, 528, 543, 544, 551, 552, 557, 558, 576, 577, 578, 590, 596, 621, 628, 631, 651, 661	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	20
R62, 64, 507, 508, 601,602, 623, 653, 663, 664, 665, 666, 672	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	13
R501, 502	RS2260	RES C/F MINI 8.2Kohm 5%, 1/4W	2
R503, 504, 515, 516, 525, 526	RS2242	RES C/F MINI 330Kohm 5%, 1/4W	6
R505, 506, 574, 575, 582, 583, 584, 585, 586, 587, 597, 598, 603, 604, 611, 612, 622, 624, 627, 633, 634, 637, 652, 662	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	24
R513, 514, 533, 534, 549, 550, 555, 556, 581	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	9
R517, 518, 629	RS2226	RES C/F MIN 1Mohm 5% 1/4W	3
R523, 524	RS2231	RES C/F MINI 18Kohm 5%, 1/4W	2
R529, 530	RS2240	RES C/F MINI 3.3Kohm 5%, 1/4W	2
R531, 532, 541, 542, 553, 554, 559, 560	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	8
R535, 536, 593 671	RS2250	RES C/F MINI 47Kohm 5%, 1/4W	4
R537, 538	RS2431	RES C/F MINI 30Kohm 5%, 1/4W	2
R539, 540	RS2432	RES C/F MINI 200Kohm 5%, 1/4W	2
R588, 607, 608	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	3
R589, 605, 606, 625, 626, 630	RS2235	RES C/F MINI 22Kohm 5%, 1/4W	6
R591	RS2237	RES C/F MINI 270 ohm 5%, 1/4W	1
R592, 595	RS2247	RES C/F MINI 47 ohm 5%, 1/4W	2

Ref.#	Part #	Description	Qty
R594	RS2244	RES C/F MINI 3.9Kohm 5%, 1/4W	1
R599, 600	RS2212	SMD RES 4.7Kohm 5% 1/10W	1
R609, 610, 632	RS2233	RES C/F MINI 22 ohm 5%, 1/4W	3
R635, R641	RS2290	RES C/F 180 ohm 5% 1/3W	2
R654	RS2222	RES C/F MINI 100 ohm 5%, 1/4W	1
R681, 682	RS2211	SMD RES 470 ohm 5% 1/10W	2
	RS1711	REWORK PER INSTRUCTION SMD RES 220 ohm 5% 1/8W	1

Transistors

Q51	TR1304	NPN XSTR 60V/3A 25W, TO-220	1
Q52	TR1281	PNP XSTR 60V/3A 25W	1
Q501, 502, 541, 542, 543, 544, 547, 548, 601, 602	TR1283	NPN XSTR 20V/300mA 400mW 3501200 TO-92	10
Q581, 586, 588	TR1269	PNP XSTR 50V/30mA 300mW 22K/22K SPT	3
Q582, 587	TR1268	NPN XSTR 50V/30mA 300mW 22K/22K SPT	2
Q589, 592	TR1291	NPN XSTR 50V/200mA 300mW 250500 TO-92	2
Q591	TR1272	PNP XSTR 50V/100mA 300mW 4.7K/4.7K SPT	1
Q593	TR1290	PNP XSTR 50V/200mA 300mW 250500 TO-92	1
Q631	TR1341	NPN XSTR 30V/800mA 600mW 100200 TO-92	1

Connectors

B501	CP1811	Super Capacitor 1F	1
CN51	CO1363	Connector 11P 2mm 2A 100V	1
CN52, 504	CO1367	Connector 3P 2mm 2A 100V	2
CN505	CO1382	CONNECTOR 4P 2MM 2A 100V	1
CN506	CO1370	Connectors 6P 2mm 2A 100V	1
CN507	CO1369	Connector 5P 2mm 2A 100V	1
CN508	CO1383	CONNECTOR HEADER 7-PIN	1
CN509	CO1388	CONNECTOR 10P 2mm 2A 100V	1
CN510	CO1389	CONNECTOR 14P 2mm 2A 100V	1
CW51	HA1166	HARNESS ASSY	1
CW502	HA1214	HARNESS ASY 11-COND 160mm	1
CW503	HA1112	CONNECTORIZES WIRE 13P	1
CW507	HA1210	(on Headphone Board) HARNESS ASY 5-COND 200mm	1
J501	CO1359	Connector 2.5A250V	1
J502	CO1402	CONNECTOR 34-POS	1
J503, 504	CO1375	Jack 1P	1
J601	CO1374	(on Headphone Board) Miniture Jack LR-SW	1
	CO1411	(USE WITH IC582) CONNECTOR IC SOCKET DIP28	1

Miscellaneous

F51	FS1089	FUSE SLO BLO 0.5A 250V	1
FB601-616	FI1011	FILTER EMI	1
FB623-643, 651-655	CC1065	FERRITE CHIP BEAD On Headphone Board	26
HL51, 52	FH1007	Fuse Holder	2
S51	SW1078	Push Switch 1P TV3	1
T51	MI1206	TRANSFORMER TOP UNIT (US)	1
X592	XT1006	Xtal 10pF	1
X591	XT1011	XTAL, 15MHZ	1
	SC1271	(use with Transformer Bracket) Screw Fpt+	4
	332501-001	(use with Transformer T51) BRACKET, MTG,XFORMER	1
	SP1102	(locate on bottom of board) INSULATOR RUBBER	1
	BR1542	STEEL SHIELD PLATE	1
	HS1155	HEATSINK, AMPLIFIER	1
	SC1262	(USE WITH HS1155) SCREW, BND + (M3x10)	3
	LB1265	Bar Code Traceability Label	1
	CL1192	CLUSTER, PRE-AMP/HDPH	1

SA1087 FUNCTION PCB

Capasitors

C901, 902	CP1697	CAP, ELECT. 100uF, 16V	2
C903, 904, 905, 906	CP1701	Electrolytic Cap. 47uF 16V	4
C917, 918	CP1733	Pol. Prop. Flm Cap 220pF, 50V	2

Integrated Circuits

IC902	IC1226	IC	1
IC901	IC1238	IC	1

Resistors

RS2225 02 4.0000 “R911,912,919,920" ”RES C/F MINI 100Kohm 5%, 1/4W"

RS2239 02 4.0000 “R909,910,917,918" ”RES C/F MINI 330 ohm 5%, 1/4W"

RS2223 02 8.0000 “R901,902,903,904,905,906,907,908" ”RES C/F MINI 1Kohm 5%, 1/4W"

WI1702 00 29.0000 “INSTALL IN AXIAL: JP2,16,23-25,2" JUMPER WIRE 24 AWG BARE ”JP44,53-57,60,61,65-67,77,80-82" “JP85,86,91,92" ”INSTALL IN MANUAL: JP71,73,78,79"

Connectors

CN502	CO1363	Connector 11P 2mm 2A 100V	1
CN503	CO1365	CONNECTOR 13P 2MM 2A100V	1
J901, 902, 903, 905	CO1377	RCA Pin Jack 2P	4
J904	CO1374	Miniture Jack LR-SW	1

SA1089 VIDEO PCB

Ref.#	Part #	Description	Qty
C101, 102, 103	CP1708	Electrolytic Cap. 22uF 50V	3
C104, 105	CP1750	Ceramic Cap. 68pF 50V	2
C106, 107	CP1697	CAP, ELECT. 100uF, 16V	2
CW508	HA1213	HARNESS ASY 7-COND 200mm	1
IC101	IC1225	IC Prime-Time	1
J101, 102, 103, 104, 105	CO1376	RCA Pin Jack 1P	5
JP101-109	WI1702	JUMPER WIRE 24 AWG BARE	9
R101, 102, 103, 104, 105	RS2257	RES C/F MINI 75 ohm 5%, 1/4W	5

SA1090 VOLUME CONTROL PCB

Ref.#	Part #	Description	Qty
C631	CP1717	CAP, MTL.FILM, 0.1uF, 50V	1
CW506	HA1130	CONNECTORIZES WIRE	1
VR631	RS2399	POTENTIOMETER W/GREEN LED	1

SA1091 IR SENSOR PCB

Ref.#	Part #	Description	Qty
C621	CP1697	CAP, ELECT. 100uF, 16V	1
CW504	HA1068	HARNESS, WIRE 3P	1
IC621	IC1255	IR Sensor	1

SA1093 POWER INDICATOR PCB

Ref.#	Part #	Description	Qty
CW505	HA1115	HARNESS, WIRE 4P	1
D641, 642, 643, 644	LE1037	LED	4
JP641	WI1702	JUMPER WIRE 24 AWG BARE	1

SA1746 "PRE-AMP PCB, FEST-80 US"

Capacitors

Ref.#	Part #	Description	Qty
B501	CP1811	Super Capacitor 1F	1
C51, 52, 57	CP1700	Electrolytic Cap. 2200uF, 16V	3
C55, 56, 58	CP1706	Electrolytic Cap. 1uF 50V	3
C59, 61	CP1863	ELECTROLYTIC CAP. 220UF, 63V	2
C64, 573, 608	CP1697	CAP, ELECT. 100uF, 16V	3
C67, 574, 575, 576, 577, 578, 579, 590, 591, 595, 596, 597, 598, 599, 600, 607	CP1911	SMD CAP 0.1uF 10% 25V	16
C68, 588	CP1725	Metallized Flm Cap. 0.22uF, 50V	2
C70, 71	CP1843	CAP.CERAM, 4700pF, 250V	1
C72, 73, 74, 75, 76, 77, 78, 507, 508, 523, 524, 539, 572, 605, 606, 632, 641, 642, 643, 644	CP1722	Metallized Flm Cap. 0.01uF, 50V	22
C501, 502, 509, 510, 511, 512, 515, 516, 517, 518, 541, 542, 547, 548, 561, 564, 565, 566, 581, 601, 602, 634	CP1701	Electrolytic Cap. 47uF 16V	22
C503, 504	CP1732	Pol. Prop. Flm Cap. 1500pF, 50V	2
C505, 506	CP1717	CAP, MTL.FILM, 0.1uF, 50V	2
C513, 514	CP1777	CAPACITOR CERAMIC 22pF 50V, 5%	2
C519, 520	CP1815	Cap Poly Film 15nF 5% 50V	2
C521, 522	CP1817	Cap Poly Film 68nF 5% 50V	2
C525, 526, 562	CP1719	Metalized Flm Cap 0.039uF, 50V	3
C535, 536	CP1702	Electrolytic Cap. 470uF 16V	2
C537, 538, 540	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V	3
C568, 569, 570, 582, 583, 584, 585, 586, 587	CP1733	Pol. Prop. Flm Cap 220pF, 50V	9
C571, 589	CP1707	Electrolytic Cap. 10uF 50V	2
C592, 593	CP1879	CAP CERAMIC 12pF 5% 50V	2
C594	CP1878	CAPACITOR 10pF 50V	1
C609	CP1757	CERAMIC CAP 0.01uF 50V	1
C636	CP1711	Electrolytic Cap. 4.7uF 50V	1
C651,652	CP1891	(on Headphone Board) CAPACITOR 680pF 10% 50V	2

Diodes

Ref.#	Part #	Description	Qty
D51, 52, 53, 54, 55, 56, 57, 58, 63, 64	DI1201	Diode Rectifier 1 A 400V	10
D60, 61	DI1204	Zener Diode 0.4W	1
D62	DI1192	Zener Diode 0.4W	1
D65, 66, 581, 582, 585, 586, 587, 588, 589	DI1205	Switching Diode 90V 0.3W	9
D67, 584, 631	DI1196	Zener Diode 0.4W	3
D591, 592, 593, 594	DI1206	Switching Diode 40V 0.3W	4

Filters

Ref.#	Part #	Description	Qty
FB601-616 620, 621, 622	FI1011	FILTER EMI	19
EF501, 502, 503, 504, 508, 509, 510	FI1018	FILTER, EMI	7
EF505, 506, 507	FI1017	EMI FILTER 4-CIRCUIT CAP 100pF 50V SMD	3
EF511, 512, 601, 602, 603, 604	FI1014	FILTER EMI	6
L51	FI1020	EMI FILTER	1
L52	FI1013	FILTER EMI	1

Integrated Circuits

Ref.#	Part #	Description	Qty
IC51	IC1232	IC Voltage Regulator +6VDC	1

Ref.#	Part #	Description	Qty
IC52	IC1234	IC Voltage Regulator -6VDC	1
IC53	IC1307	IC VOLTAGE REGULATOR +5V, TO-220	1
IC501	IC1245	IC ELECTRICAL VOLUME	1
IC502	IC1244	IC	1
IC503	IC1248	IC	1
IC504, 505, 506, 507	IC1226	IC	4
IC591	IC1313	IC QUAD LOW-PWR LINE DRIVER	1
IC595	IC1236	IC	1
IC581	IC1219	IC	1
IC582	IC1320	IC EPROM 128K x 8 DIP32	1
IC583	IC1259	IC SMD 32KBYTE CMOS STAT. RAM	1
IC584	IC1265	IC LOW PWR CLOCK/CALENDAR	1
IC585	IC1277	IC, EEPROM, 256x8, CMOS SERIAL BUS	1
IC586	IC1254	IC SMD OCTAL-D-TYPE LATCH	1
IC587	IC1270	IC SMD DUAL 2-to-4 LINE DECODER	1
IC589, 590	IC1269	IC	2
IC592	IC1283	IC SMD DUAL 2-INPUT AND GATE	1
IC601	IC1262	IC	1
PH591	IC1241	Photocoupler	1

Resisitors

R50	RS2415	RES C/F 3.3Mohm 10% 1/2W	1
R51	RS2261	RES C/F 1Kohm 5% 1/3W	1
R52, 640	RS2341	RES C/F 100 ohm 5% 1/3W	2
R53	RS2389	RES C/F 4.7Kohm 5% 1/3W	1
R55	RS2315	RES FUSE 4.7 ohm 2% 1/4W	1
R61, 63, 527, 528, 543, 544, 557, 558, 561, 567, 569, 572, 576, 577, 578, 590, 596, 621, 628, 631, 651, 661	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	22
R62, 64, 507, 508, 511, 512, 601, 602, 623, 653, 663, 664, 665, 666, 672	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	15
R501, 502	RS2260	RES C/F MINI 8.2Kohm 5%, 1/4W	2
R503, 504, 515, 516, 525, 526	RS2242	RES C/F MINI 330Kohm 5%, 1/4W	6
R505, 506, 509, 510, 574, 575, 582, 583, 584, 585, 586, 587, 598, 603, 604, 611, 612, 622, 624, 627, 633, 634, 637, 652, 662	RS2223	RES C/F MINI 1Kohm 5%	25
R513, 514, 519, 520, 533, 534, 555, 556, 562, 566, 570, 571, 581	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	13
R517, 518, 629	RS2226	RES C/F MIN 1Mohm 5% 1/4W	3
R523, 524	RS2231	RES C/F MINI 18Kohm 5%, 1/4W	2
R529, 530	RS2240	RES C/F MINI 3.3Kohm 5%, 1/4W	2
R531, 532, 541, 542, 559, 560, 568, 573	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	8
R535, 536, 593, 671	RS2250	RES C/F MINI 47Kohm 5%, 1/4W	3
R563, 564, 579	RS2291	RES C/F MINI 27Kohm 5%, 1/4W	3
R565	RS1376	RES C/F MINI 910 ohm 5%, 1/4W	1
	RS1711	REWORK PER INSTRUCTION SMD RES 220 ohm 5% 1/8W	1
R580	RS2476	RES C/F MINI 3Kohm 5%, 1/4W	1
R588, 607, 608	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	3
R589, 605, 606, 625, 626, 630	RS2235	RES C/F MINI 22Kohm 5%, 1/4W	6
R591	RS2237	RES C/F MINI 270 ohm 5%, 1/4W	1
R592, 595	RS2247	RES C/F MINI 47 ohm 5%, 1/4W	2
R594	RS2244	RES C/F MINI 3.9Kohm 5%, 1/4W	1
R599, 600	RS2212	SMD RES 4.7Kohm 5% 1/10W	2
R609, 610, 632	RS2233	RES C/F MINI 22 ohm 5%, 1/4W	3
R635, R641	RS2290	RES C/F 180 ohm 5% 1/3W	2
R654	RS2222	RES C/F MINI 100 ohm 5%, 1/4W	1
R681, 682	RS2211	SMD RES 470 ohm 5% 1/10W	2

Transistors

Q51	TR1304	NPN XSTR 60V/3A 25W, TO-220	1
Q52	TR1281	PNP XSTR 60V/3A 25W 2-10R1A	1
Q501, 502, 503, 504, 543, 544, 545, 546, 547, 548, 601, 602	TR1283	NPN XSTR 20V/300mA 400mW 3501200 TO-92	12
Q581, 586, 588	TR1269	PNP XSTR 50V/30mA 300mW 22K/22K SPT	3
Q582, 584, 587	TR1268	NPN XSTR 50V/30mA 300mW 22K/22K SPT	3
Q589, 592	TR1291	NPN XSTR 50V/200mA 300mW 250500 TO-92	2
Q591	TR1272	PNP XSTR 50V/100mA 300mW 4.7K/4.7K SPT	1
Q593	TR1290	PNP XSTR 50V/200mA 300mW 250500 TO-92	1
Q631	TR1341	NPN XSTR 30V/800mA 600mW 100200 TO-92	1

Connectors

J501	CO1359	Connector 2.5A250V	1
J503, 504	CO1375	Jack 1P	2
J502	CO1402	CONNECTOR 34-POS	1
J506	CO1390	CONNECTOR 8P	1
CN505	CO1382	CONNECTOR 4P 2MM 2A 100V	1
CN506	CO1370	Connectors 6P 2mm 2A 100V	1
CN507	CO1369	Connector 5P 2mm 2A 100V	1
CN508	CO1383	CONNECTOR HEADER 7-PIN	1
CN509	CO1388	CONNECTOR 10P 2mm 2A 100V	1
CN510	CO1389	CONNECTOR 14P 2mm 2A 100V	1

Ref.#	Part #	Description	Qty
CN51	CO1363	Connector 11P 2mm 2A 100V	1
CN52, 504	CO1367	Connector 3P 2mm 2A 100V	1
CW51	HA1166	HARNESS ASSY	1
CW502	HA1214	HARNESS ASY 11-COND 160mm	1
CW507	HA1210	(on Headphone Board) HARNESS ASY 5-COND 200mm	1

Miscellaneous

CW501	HA1109	CONNECTORIZES WIRE 8P	1
CW503	HA1112	CONNECTORIZES WIRE 13P	1
FB623-643, 651, 652, 653, 654, 655	CC1065	FERRITE CHIP BEAD On Headphone Board	26
F51	FS1089	FUSE SLO BLO 0.5A 250V	1
HL51, 52	FH1007	Fuse Holder	2
J601	CO1374	(on Headphone Board) Miniture Jack LR-SW	1
S51	SW1078	Push Switch 1P TV3	1
T51	MI1206	TRANSFORMER TOP UNIT (US)	1
X592	XT1006	Xtal 10pF	1
X591	XT1011	XTAL, 15MHZ	1
	BR1542	STEEL SHIELD PLATE	1
	SC1262	(use with HS1155) SCREW, BND + (M3x10)	1
	HS1155	(use with IC51,52,53) HEATSINK, AMPLIFIER"	1
	LB1265	Bar Code Traceability Label	1
	SP1102	(locate on bottom of board) INSULATOR RUBBER	1
	CO1418	(USE WITH IC582) CONNECTOR IC SOCKET DIP32	1
	SC1271	(use with Transformer Bracket) Screw Fpt+	4
	332501-001	(use with Transformer T51) BRACKET, MTG,XFORMER	1
	CL1236	CLUSTER BD FEST. 60/70/80 PRE-AMP & HEADPHONE	1

SA1748 FUNCTION PCB ASY

Capacitors

C801, 802	CP1702	Electrolytic Cap. 470uF 16V	2
C803, 804, 832, 842, 843	CP1727	Metallized Flm Cap 0.047uF, 50V	5
C805, 806, 810, 811, 812, 814, 815, 822, 825, 841, 845, 852, 854, 920	CP1717	CAP, MTL.FILM, 0.1uF, 50V	14
C807, 808	CP1724	Metallized Flm Cap 0.022uF,50V	2
C809, 813	CP1739	Pol. Prop. Flm Cap. 680pF, 50V	2
C816, 819	CP1708	Electrolytic Cap. 22uF 50V	2
C817, 823, 844, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912	CP1701	Electrolytic Cap. 47uF 16V	13
C818	CP1736	Pol. Prop. Flm Cap. 4700pF, 50V	1
C820, 821, 836, 837	CP1707	Electrolytic Cap. 10uF 50V	4
C824, 828, 829	CP1711	Electrolytic Cap. 4.7uF 50V	3
C826, 827, 830, 831	CP1725	Metallized Flm Cap. 0.22uF, 50V	3
C833, 840	CP1738	Pol. Prop. Flm Cap. 5600pF, 50V	2
C834	CP1728	Metallized Flm Cap. 0.68uF, 50V	1
C835, 839, 847	CP1737	Pol. Prop. Flm Cap. 560pF, 50V	3
C838	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V	1
C846	CP1882	POLYPROPELENE FILM CAPACITOR 2200uF 50V	1
C853, 901, 902	CP1697	CAP, ELECT. 100uF, 16V	3
C913, 914	CP1729	Metallized Flm Cap 0.082uF, 50V	2
C915, 916	CP1726	Metallized Flm Cap 0.033uF, 50V	2
C917, 918	CP1733	Pol. Prop. Flm Cap 220pF, 50V	2

Integrated Circuits

IC801	IC1229	IC	1
IC802	IC1228	IC	1
IC901, 905	IC1238	IC	2
IC902, 903, 904, 908	IC1226	IC	4
IC906	IC1239	IC	1
IC907	IC1246	IC	1

Resistors

R801, 804, 812, 814, 817, 820, 822, 945, 946	RS2230	RES C/F MINI 15Kohm 5%, 1/4W	9
R802, 805	RS2250	RES C/F MINI 47Kohm 5%, 1/4W	2
R803, 806	RS2259	RES C/F MINI 7.5Kohm 5%, 1/4W	2
R807, 808, 813, 941, 942	RS2235	RES C/F MINI 22Kohm 5%, 1/4W	5
R809	RS2251	RES C/F MINI 4.7Mohm 5%, 1/4W	1
R810, 815, 829, 911, 912, 919, 920, 952, 956, 957, 958	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	11
R811	RS2242	RES C/F MINI 330Kohm 5%, 1/4W	1
R816	RS2246	RES C/F MINI 43Kohm 5%, 1/4W	1
R818, 823, 826, 828, 923, 924, 927, 928, 929, 930, 933, 934, 953, 954	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	14
R819, 821	RS2233	RES C/F MINI 22 ohm 5%, 1/4W	2
R824	RS2226	RES C/F MIN 1Mohm 5% 1/4W	1
R825, 901, 902, 903, 904, 905, 906, 907, 908	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	9
R827, 925, 926, 931, 932	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	5
R909, 910, 917, 918, 935, 936, 951, 955	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	8

Ref.#	Part #	Description	Qty
R937, 938	RS2256	RES C/F MINI 68Kohm 5%, 1/4W	2
R939, 940	RS2241	RES C/F MINI 33Kohm 5%, 1/4W	2
R943, 944	RS2231	RES C/F MINI 18Kohm 5%, 1/4W	2
R947, 948	RS2245	RES C/F MINI 39Kohm 5%, 1/4W	2
R949, 950	RS2232	RES C/F MINI 20Kohm 5%, 1/4W	2

Connectors

CN501	CO1371	Connectors 8P 2mm 2A 100V	1
CN502	CO1363	Connector 11P 2mm 2A 100V	1
CN503	CO1365	CONNECTOR 13P 2MM 2A100V	1

Miscellaneous

J901, 902, 903, 905	CO1377	RCA Pin Jack 2P	4
J904	CO1374	Miniture Jack LR-SW	1
JP2-7, 11-14, 16, 18-40, 44, 46, 48, 49, 51-67, 69, 70, 77, 80-88	WI1702	INSTALL IN AXIAL: JUMPER WIRE 24 AWG BARE	72
		INSTALL IN MANUAL: JP71-73,78,79	
X801	XT1009	Xtal	1

SA1795 AMP MAIN BOARD ASY

Capacitors

C1	CP1843	CAP.CERAM, 4700pF, 250V	1
C4, 5	CP1810	CAP. ELECT. 10,000uF, 50V	2
C7	CP1697	CAP, ELECT. 100uF, 16V	1
C8	CP1706	Electrolytic Cap. 1uF 50V	1
C9, 10	CP1817	Cap Poly Film 68nF 5% 50V	2
C11, 12, 413, 414, 423, 424	CP1707	Electrolytic Cap. 10uF 50V	6
C15	CP1698	Electrolytic Cap. 22uF 16V	1
C401, 402	CP1701	Electrolytic Cap. 47uF 16V	2
C403, 404	CP1750	Ceramic Cap. 68pF 50V	2
C405, 406, 435, 436	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V4	
C407, 408	CP1695	CAP, ELECT, 470uF, 6.3V	2
C409, 410, 425, 426	CP1878	CAPACITOR 10pF 50V	4
C411, 412	CP1749	Ceramic Cap. 100pF 50V	2
C415, 416, 417, 418, 419, 420, 421, 422	CP1717	CAP, MTL.FILM, 0.1uF, 50V	8
C427, 428	CP1695	CAP, ELECT, 470uF, 6.3V	2
C429, 430, 431, 432	CP1730	Polypropylen Flm Cap 100pF, 50V	4

Diodes

D1	DI1189	Bridge Diode 200V 4A	1
D2, 3	DI1197	Switching Diode	2
D8, 9, 11, 12 401, 402	DI1205	Switching Diode 90V 0.3W	6
D10	DI1192	Zener Diode 0.4W (T/R,2"")	1
D13	DI1214	DIODE ZENER	1

Integrated Circuits

PH1	IC1240	Photocoupler 70V 0.15W	1

Resistors

R1	RS2269	RES C/F 3.3Mohm 5% 1/2W	1
R2, 3, 423, 424, 425, 426, 431, 432	RS2176	RES FUSE 560 ohm 5% 1/4W	8
R4, 46, 479	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	3
R5, 10, 445, 446	RS2234	RES C/F MINI 2.2Kohm 5%, 1/4W	4
R6	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	1
R7, 13, 22, 23, 31	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	5
R8	RS2256	RES C/F MINI 68Kohm 5%, 1/4W	1
R9	RS2241	RES C/F MINI 33Kohm 5%, 1/4W	1
R11, 12	RS2287	RES C/F 6.8Kohm 5% 1/3W	2
R14	RS2235	RES C/F MINI 22Kohm 5%, 1/4W	1
R15, 16, 17, 18	RS2229	RES C/F MINI 1.5Kohm 5%, 1/4W	4
R19, 20	RS2252	RES C/F MINI 560 ohm 5%, 1/4W	2
R21	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	2
R24	RS2243	RES C/F MINI 3.3Mohm 5%, 1/4W	1
R33	RS2410	RES C/F 82Kohm 5% 1/3W	1
R34	RS2382	RES C/F MINI 1.8Kohm 5%, 1/4W	2
R35	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	1
R48, 443, 444	RS2401	RES C/F MINI 1.2Kohm 5%, 1/4W	3
R401, 402	RS2261	RES C/F 1Kohm 5% 1/3W	2
R403, 404, 419, 420	RS2340	RES C/F 33Kohm 5% 1/3W	4
R405, 406, 407, 408	RS2326	RES C/F 220 ohm 5% 1/3W	4
R409, 410, 411, 412	RS2262	RES C/F 1.5Kohm 5% 1/3W	4
R413, 414	RS2237	RES C/F MINI 270 ohm 5%, 1/4W	2
R415, 416, 417, 418	RS2171	RES FUSE 10 ohm 5% 1/4W	4
R421, 422	RS2264	RES C/F 1.6Kohm 5% 1/3W	2
R427, 428	RS2390	RES FUSE 560 ohm 2% 1/4W	2
R429, 430	RS2383	RES C/F 560 ohm 5% 1/6W	2
R433, 434, 435, 436	RS2172	RES FUSE 100 ohm 5% 1/4W	4
R437, 438, 439, 440	RS2263	RES C/F 15Kohm 5% 1/3W	4
R441, 442	RS2265	RES C/F 2.2Kohm 5% 1/3W	2
R447, 448	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	2
R449, 450, 451, 452, 461, 462	RS2167	RES FUSE 100 ohm 2% 1/4W	6
R453, 454, 455, 456	RS2168	RES FUSE 15 ohm 2% 1/4W	4
R457, 458, 459, 460	RS2169	RES FUSE 2.2 ohm 5% 1/4W	4
R463, 464, 465, 466	RS2271	RES M/0 F/R 0.22ohm 5% 3W	4
R467, 468	RS2397	RES M/O F/R 10 ohm 5% 2W	2

Ref.#	Part #	Description	Qty
R469, 470	RS2428	RES FUSE 330 ohm 5% 1/6W	2
R471, 472	RS2253	RES C/F MINI 5.6Kohm 5%, 1/4W	2
R473, 474, 475, 476	RS2280	RES C/F MINI 82 ohm 5%, 1/4W	4
R477, 478	RS2236	RES C/F MINI 220Kohm 5%, 1/4W	2

Transistors

Q1, 3, 8, 10, 11, 13, 407, 408	TR1291	NPN XSTR 50V/200mA 300mW 250500 TO-92	8
Q2, 7	TR1290	PNP XSTR 50V/200mA 300mW, 250500 TO-92	2
Q4, 417, 418"	TR1284	NPN XSTR 120V/100mA 300mW 350700 TO-92	3
Q5, 6, 409, 410, 411,412	TR1280	PNP XSTR 120V/100mA 300mW 350700 TO-92	6
Q9	TR1324	NPN XSTR 25V/1.5A 900mW 6001200 TO-92L AMMO PA	1
Q12	TR1330	PNP XSTR 120V/800mA 900mW 80160 TO-92	1
Q401, 402, 403, 404, 405, 406, 419, 420	TR1286	NPN XSTR 90V/50mA 300mW 6001200 TO-92	8
Q413, 414	TR1288	PNP XSTR 100V/50mA 900mW 100200 TO-92	2
Q415, 416	TR1285	NPN XSTR 100V/50mA 900mW 100200 TO-92	2
Q421, 422, 427, 428	TR1289	NPN XSTR 100V/1A 900mW 100200 TO-92	4
Q423, 424, 425, 426	TR1287	PNP XSTR 100V/1A 900mW 100200 TO-92	4
Q429, 430	TR1326	NPN XSTR 140V/10A 100W 80160 2-16C1A	2
Q431, 432	TR1319	PNP XSTR 140V/10A 100W 80160 2-16C1A	2
Q433, 434	TR1279	N-CH FET 50V/6.5mA 300mW, TO-92	2

Connectors

CN401	CO1366	CONNECTOR 2P 7.92mm 7A 250V	1
CN403	CO1384	CONNECTOR	1
CN404	CO1368	CONNECTOR 3P 3.96mm 7A 250V	1
CN405	CO1367	CONNECTOR 3P 2mm 2A 100V	1
CN406	CO1402	CONNECTOR 34-POS	1
CN407	CO1372	CONNECTOR 2.5A 250V	1

Miscellaneous

JP1-8, 10, 11, 13-23, 25-29, 31-46, 49-53, 60, 68-75, 77-94, JP54-59	WI1702	MACHINE INSERT THE FOLLOWING JUMPER WIRE 24 AWG BARE HAND INSERT TO FOLLOWING: JP54-59	74
PJ401	CO1386	Pin Jack	1
RL1	RE1022	Relay	1
TM401	TE1195	Terminal 4P	1
TM402	TE1197	Terminal Prime-Time	1
VR401, 402	RS2289	POT. TRIM. 1K-OHM	2
	SC1262	(MOUNT D1 TO HEATSINK) SCREW, BND + (M3x10)	1
	HS1156	(USE WITH D1) Heatsink	1

SA1796 AMP #1 MAIN BOARD ASY

Capacitors

C1	CP1843	CAP.CERAM, 4700pF, 250V	1
C4, 5	CP1810	CAP. ELECT. 10,000uF, 50V	2
C7	CP1697	CAP, ELECT. 100uF, 16V	1
C8	CP1706	Electrolytic Cap. 1uF 50V	1
C9, 10	CP1817	Cap Poly Film 68nF 5% 50V	2
C11, 12, 413, 414, 423, 424	CP1707	Electrolytic Cap. 10uF 50V	6
C15	CP1698	Electrolytic Cap. 22uF 16V	1
C401, 402	CP1701	Electrolytic Cap. 47uF 16V	2
C403, 404	CP1750	Ceramic Cap. 68pF 50V	2
C405, 406	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V	2
C407, 408	CP1695	ELECT, 470uF, 6.3V	2
C409, 410, 425 426	CP1878	CAPACITOR 10pF 50V	4
C411, 412	CP1749	Ceramic Cap. 100pF 50V	2
C415, 416, 417, 418 419, 420, 421, 422	CP1717	CAP, MTL.FILM, 0.1uF, 50V	8
C427, 428	CP1695	CAP, ELECT, 470uF, 6.3V	2
C429, 430, 431, 432	CP1730	Polypropylen Flm Cap 100pF, 50V	4
C433, 434	CP1899	CAP CER DISC 0.01uF 10%, 50V	2

Diodes

D1	DI1189	Bridge Diode 200V 4A	1
D10	DI1192	Zener Diode 0.4W	1
D2, 3	DI1197	Switching Diode	2
D8, 9, 11, 12, 401, 402	DI1205	Switching Diode 90V 0.3W	6
D13	DI1214	DIODE ZENER	1

Integrated Circuit

PH1	IC1240	Photocoupler 70V 0.15W	1

Resistors

R1	RS2269	RES C/F 3.3Mohm 5% 1/2W	1
R2 ,3, 423, 424, 425, 426, 431, 432	RS2176	RES FUSE 560 ohm 5% 1/4W	8
R4, 46, 479	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	3
R5, 10, 445, 446	RS2234	RES C/F MINI 2.2Kohm 5%, 1/4W	4
R6	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	1
R7, 13, 22, 23, 31	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	5
R8	RS2256	RES C/F MINI 68Kohm 5%, 1/4W	1
R9	RS2241	RES C/F MINI 33Kohm 5%, 1/4W	1
R11, 12	RS2287	RES C/F 6.8Kohm 5% 1/3W	2
R14	RS2235	RES C/F MINI 22Kohm 5%, 1/4W	1

Ref.#	Part #	Description	Qty
R15, 16, 17, 18	RS2229	RES C/F MINI 1.5Kohm 5%, 1/4W	4
R19, 20	RS2252	RES C/F MINI 560 ohm 5%, 1/4W	2
R21	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	1
R24	RS2243	RES C/F MINI 3.3Mohm 5%, 1/4W	1
R34	RS2382	RES C/F MINI 1.8Kohm 5%, 1/4W	1
R35	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	1
R33	RS2410	RES C/F 82Kohm 5% 1/3W	1
R48, 443, 444	RS2401	RES C/F MINI 1.2Kohm 5%, 1/4W	3
R469, 470	RS2428	RES FUSE 330 ohm 5% 1/6W	2
R401, 402	RS2261	RES C/F 1Kohm 5% 1/3W	2
R403, 404, 419, 420	RS2340	RES C/F 33Kohm 5% 1/3W	4
R405, 406, 407, 408	RS2326	RES C/F 220 ohm 5% 1/3W	4
R409, 410, 411, 412	RS2262	RES C/F 1.5Kohm 5% 1/3W	4
R413, 414	RS2237	RES C/F MINI 270 ohm 5%, 1/4W	2
R415, 416, 417, 418	RS2171	RES FUSE 10 ohm 5% 1/4W	4
R421, 422	RS2264	RES C/F 1.6Kohm 5% 1/3W	2
R427, 428	RS2390	RES FUSE 560 ohm 2% 1/4W	2
R429, 430	RS2383	RES C/F 560 ohm 5% 1/6W	2
R433, 434, 435, 436	RS2172	RES FUSE 100 ohm 5% 1/4W	4
R437, 438, 439, 440	RS2263	RES C/F 15Kohm 5% 1/3W	4
R441, 442	RS2265	RES C/F 2.2Kohm 5% 1/3W	2
R447, 448	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	2
R449, 450, 451, 452, 461, 462	RS2167	RES FUSE 100 ohm 2% 1/4W	6
R453, 454, 455, 456	RS2168	RES FUSE 15 ohm 2% 1/4W	4
R457, 458, 459, 460	RS2169	RES FUSE 2.2 ohm 5% 1/4W	4
R463, 464, 465, 466	RS2271	RES M/0 F/R 0.22ohm 5% 3W	4
R467, 468	RS2397	RES M/O F/R 10 ohm 5% 2W	2
R471, 472	RS2253	RES C/F MINI 5.6Kohm 5%, 1/4W	2
R473, 474, 475, 476	RS2280	RES C/F MINI 82 ohm 5%, 1/4W	4
R477, 478	RS2236	RES C/F MINI 220Kohm 5%, 1/4W	2

Transistors

Q1, 3, 8, 10, 11, 13, 407, 408	TR1291	NPN XSTR 50V/200mA 300mW 250500 TO-92	8
Q2, 7	TR1290	PNP XSTR 50V/200mA 300mW 250500 TO-92	2
Q4, 417, 418	TR1284	NPN XSTR 120V/100mA 300mW 350700 TO-92	3
Q5, 6, 409, 410, 411, 412	TR1280	PNP XSTR 120V/100mA 300mW 350700 TO-92	6
Q9	TR1324	NPN XSTR 25V/1.5A 900mW 6001200 TO-92L AMMO PA	1
Q12	TR1330	PNP XSTR 120V/800mA 900mW 80160 TO-92	1
Q401, 402, 403, 404, 405, 406, 419, 420	TR1286	NPN XSTR 90V/50mA 300mW 6001200 TO-92	8
Q413, 414	TR1288	PNP XSTR 100V/50mA 900mW 100200 TO-92	2
Q415, 416	TR1285	NPN XSTR 100V/50mA 900mW 100200 TO-92	2
Q421, 422, 427, 428	TR1289	NPN XSTR 100V/1A 900mW 100200 TO-92	4
Q423, 424, 425, 426	TR1287	PNP XSTR 100V/1A 900mW 100200 TO-92	4
Q429, 430	TR1326	NPN XSTR 140V/10A 100W 80160 2-16C1A	2
Q431, 432	TR1319	PNP XSTR 140V/10A 100W 80160 2-16C1A	2
Q433, 434	TR1279	N-CH FET 50V/6.5mA 300mW, TO-92	2

Connectors

CN401	CO1366	Connector 2P 7.92mm 7A 250V	1
CN403	CO1384	Connector	1
CN404	CO1368	Connector 3P 3.96mm 7A 250V	1
CN405	CO1367	Connector 3P 2mm 2A 100V	1
CN406	CO1402	CONNECTOR 34-POS	1
CN407	CO1372	Connector 2.5A 250V	1

Miscellaneous

JP1-8, 10, 11, 13-25, 27-29, 31-46, 49-60, 69, 71-73, (ADJ Q409/413) (ADJ J401), (ADJ D9), (ADJ RL1)	WI1702	JUMPER WIRE 24 AWG BARE	62
RL1	RE1022	Relay	1
TM401	TE1195	Terminal 4P	1
TM402	TE1197	Terminal Prime-Time	1
VR401, 402	RS2289	POT. TRIM. 1K-OHM	2
	SC1262	(MOUNT D1 TO HEATSINK) SCREW, BND + (M3x10)	1
	HS1156	(USE WITH D1) Heatsink	1

SA1797 AMP #2 MAIN BOARD ASY

Capacitors

C1001	CP1843	CAP.CERAM, 4700pF, 250V	1
C1004,1005	CP1810	CAP. ELECT. 10,000uF, 50V	2
C1007	CP1697	CAP, ELECT. 100uF, 16V	1
C1008	CP1706	Electrolytic Cap. 1uF 50V	1
C1009, 1010	CP1817	Cap Poly Film 68nF 5% 50V	2
C1011, 1012, 1413, 1414, 1423, 1424	CP1707	Electrolytic Cap. 10uF 50V	6
C1015	CP1698	Electrolytic Cap. 22uF 16V	1
C1401, 1402	CP1701	Electrolytic Cap. 47uF 16V	2
C1403, 1404	CP1750	Ceramic Cap. 68pF 50V	2
C1405, 1406	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V	2

Ref.#	Part #	Description	Qty
C1407, 1408, 1427, 1428	CP1695	CAP, ELECT, 470uF, 6.3V	4
C1409, 1410, 1425 1426	CP1878	CAPACITOR 10pF 50V	1
C1411, 1412	CP1749	Ceramic Cap. 100pF 50V	2
C1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422	CP1717	CAP, MTL.FILM, 0.1uF, 50V	8
C1429, 1430, 1431, 1432	CP1730	Polypropylen Flm Cap 100pF, 50V	4

Diodes

D1001	DI1189	Bridge Diode 200V 4A	1
D1002, 1003, 1008, 1011, 1012, 1401, 1402	DI1205	Switching Diode 90V 0.3W	7
D1010	DI1192	Zener Diode 0.4W	1

Integrated Circuit

PH1001	IC1240	Photocoupler 70V 0.15W	1

Resistors

R1005, 1010, 1445, 1446	RS2234	RES C/F MINI 2.2Kohm 5%, 1/4W	4
R1019, 1020	RS2252	RES C/F MINI 560 ohm 5%, 1/4W	2
R1001	RS2269	RES C/F 3.3Mohm 5% 1/2W	1
R1002, 1003, 1423, 1424, 1425, 1426, 1431, 1432	RS2176	RES FUSE 560 ohm 5% 1/4W	8
R1004, 1046, 1479	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	3
R1006	RS2439	RES C/F MINI 82Kohm 5%, 1/4W	1
R1007, 1013, 1022, 1023, 1031, 1481	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	6
R1008	RS2256	RES C/F MINI 68Kohm 5%, 1/4W	1
R1009, 1403, 1404	RS2241	RES C/F MINI 33Kohm 5%, 1/4W	3
R1011, 1012	RS2287	RES C/F 6.8Kohm 5% 1/3W	2
R1014	RS2235	1RES C/F MINI 22Kohm 5%, 1/4W	1
R1015, 1016, 1017, 1018	RS2229	RES C/F MINI 1.5Kohm 5%, 1/4W	4
R1021, 1401, 1402	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	3
R1024	RS2243	RES C/F MINI 3.3Mohm 5%, 1/4W	1
R1033	RS2398	RES C/F 820Kohm 5% 1/3W	1
R1034	RS2382	RES C/F MINI 1.8Kohm 5%, 1/4W	1
R1035	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	1
R1047	RS2429	RES C/F 120 ohm 5% 1/3W	1
R1048	RS2414	RES C/F 1.2Kohm 5% 1/3W	1
R1405, 1406, 1407, 1408	RS2326	RES C/F 220 ohm 5% 1/3W	4
R1409, 1410, 1411, 1412	RS2262	RES C/F 1.5Kohm 5% 1/3W	4
R1413, 1414	RS2237	RES C/F MINI 270 ohm 5%, 1/4W	2
R1415, 1416, 1417, 1418	RS2171	RES FUSE 10 ohm 5% 1/4W	4
R1419, 1420	RS2340	RES C/F 33Kohm 5% 1/3W	2
R1421	RS2264	RES C/F 1.6Kohm 5% 1/3W	1
R1422	RS2477	RES C/F 1.1Kohm 5% 1/3W	1
R1427, 1428	RS2390	RES FUSE 560 ohm 2% 1/4W	2
R1429, 1430	RS2383	RES C/F 560 ohm 5% 1/6W	2
R1433, 1434, 1435 1436	RS2172	RES FUSE 100 ohm 5% 1/4W	4
R1437, 1438, 1439, 1440	RS2263	RES C/F 15Kohm 5% 1/3W	4
R1441, 1442	RS2265	RES C/F 2.2Kohm 5% 1/3W	2
R1443, 1444	RS2401	RES C/F MINI 1.2Kohm 5%, 1/4W	2
R1447, 1448	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	2
R1449, 1450, 1451, 1452,1461,1462	RS2167	RES FUSE 100 ohm 2% 1/4W	6
R1453, 1454, 1455, 1456	RS2168	RES FUSE 15 ohm 2% 1/4W	4
R1457, 1458, 1459, 1460	RS2169	RES FUSE 2.2 ohm 5% 1/4W	4
R1463, 1464, 1465, 1466	RS2271	RES M/0 F/R 0.22ohm 5% 3W	4
R1467, 1468	RS2397	RES M/O F/R 10 ohm 5% 2W	2
R1469, 1470	RS2428	RES FUSE 330 ohm 5% 1/6W	2
R1471, 1472	RS2253	RES C/F MINI 5.6Kohm 5%, 1/4W	2
R1473, 1474, 1475, 1476	RS2280	RES C/F MINI 82 ohm 5%, 1/4W	4
R1477, 1478	RS2236	RES C/F MINI 220Kohm 5%, 1/4W	2
R1480	RS2260	RES C/F MINI 8.2Kohm 5%, 1/4W	1

Transistors

Q1001, 1003, 1008, 1010, 1011, 1013, 1407, 1408	TR1291	NPN XSTR 50V/200mA 300mW 250500 TO-92	8
Q1002, 1007, 1014	TR1290	PNP XSTR 50V/200mA 300mW 250500 TO-92	3
Q1004, 1417, 1418	TR1284	NPN XSTR 120V/100mA 300mW 350700 TO-92	3
Q1005, 1006, 1409, 1410, 1411, 1412	TR1280	PNP XSTR 120V/100mA 300mW 350700 TO-92	6
Q1009	TR1324	NPN XSTR 25V/1.5A 900mW 6001200 TO-92	1
Q1012	TR1330	PNP XSTR 120V/800mA 900mW 80160 TO-92	1
Q1401, 1402, 1403, 1404, 1405, 1406, Q1419, 1420	TR1286	NPN XSTR 90V/50mA 300mW 6001200 TO-92	8
Q1413, 1414	TR1288	PNP XSTR 100V/50mA 900mW 100200 TO-92	2
Q1415, 1416	TR1285	NPN XSTR 100V/50mA 900mW 100200 TO-92	2
Q1421, 1422, 1427, 1428	TR1289	NPN XSTR 100V/1A 900mW 100200 TO-92	4
Q1423, 1424, 1425, 1426	TR1287	PNP XSTR 100V/1A 900mW 100200 TO-92	4
Q1429, 1430	TR1326	NPN XSTR 140V/10A 100W 80160 2-16C1A	2
Q1431, 1432	TR1319	PNP XSTR 140V/10A 100W 80160 2-16C1A	2
Q1433, 1434	TR1279	N-CH FET 50V/6.5mA 300mW, TO-92	2

Connectors

CN1401	CO1366	Connector 2P 7.92mm 7A 250V	1

Ref.#	Part #	Description	Qty
CN1403	CO1384	Connector	1
CN1404	CO1368	Connector 3P 3.96mm 7A 250V	1
CN1405	CO1367	Connector 3P 2mm 2A 100V	1
CN1406	CO1392	Connector DIN 8-Pos	1
CN1407	CO1372	Connector 2.5A 250V	1
CW1407	HA1189	HARNESS ASSY 7P 2mm	1
CW1407	HA1202	HARNESS ASSY	1
CW1409	HA1203	HARNESS ASSY	1
CW1408	HA1190	HARNESS ASSY 3P 2mm	1

Miscellaneous

JP1001-1008, 1010 1011, 1013-1025 1027-1046, 1049-1053, 1060, 1068	WI1702	JUMPER WIRE 24 AWG BARE JP1069-1075;1077;1080-1096	75
RL1001	RE1022	Relay	1
SW1401	SW1086	SWITCH POWER	1
TM1401	TE1215	TERMINAL, 6P	1
TM1402	TE1197	Terminal Prime-Time	1
VR1401, 1402	RS2289	POT. TRIM. 1K-OHM	2
	SC1262	(MOUNT D1001 TO HEATSINK) "SCREW, BND + (M3x10)	1
	HS1156	(USE WITH D1001) Heatsink	1

SA1798 PRE-AMP BOARD ASY (60-EU)

Capacitors

B501	CP1811	Super Capacitor 1F	1
C51, 52, 57	CP1700	Electrolytic Cap. 2200uF, 16V	3
C55, 56, 58	CP1706	Electrolytic Cap. 1uF 50V	3
C59, 61	CP1863	ELECTROLYTIC CAP. 220UF, 63V	2
C64, 573, 608	CP1697	CAP, ELECT. 100uF, 16V	3
C67, 574, 575, 576, 577, 578, 579, 590, 591, 595, 596, 597, 598, 599, 600, 607	CP1911	SMD CAP 0.1uF 10% 25V	16
C68, 588	CP1725	Metallized Flm Cap. 0.22uF, 50V	2
C70, 71	CP1843	CAP.CERAM, 4700pF, 250V	2
C72, 73, 74, 75, 76, 77, 78, 507, 508, 523, 524, 605, 606, 632, 641, 642	CP1722	Metallized Flm Cap. 0.01uF, 50V	16
C501, 502, 511, 512, 515, 516, 517, 518, 541, 542, 543, 544, 547, 548, 581, 601, 602, 634	CP1701	Electrolytic Cap. 47uF 16V	18
C503, 504	CP1732	Pol. Prop. Flm Cap. 1500pF, 50V	2
C505, 506	CP1717	CAP, MTL.FILM, 0.1uF, 50V	2
C513, 514	CP1777	CAPACITOR CERAMIC 22pF 50V, 5%	2
C519, 520	CP1815	Cap Poly Film 15nF 5% 50V	2
C521, 522	CP1817	Cap Poly Film 68nF 5% 50V	2
C525, 526	CP1719	Metalized Flm Cap 0.039uF, 50V	2
C535, 536	CP1702	Electrolytic Cap. 470uF 16V	2
C537, 538	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V	1
C568, 569, 570, 582, 583, 584, 585, 586, 587	CP1733	Pol. Prop. Flm Cap 220pF, 50V	9
C571, 589	CP1707	Electrolytic Cap. 10uF 50V	2
C592, 593	CP1887	SMD CAP 15pF 5% 50V	2
C594	CP1878	CAPACITOR 10pF 50V	1
C609	CP1757	CERAMIC CAP 0.01uF 50V	1
C636	CP1711	Electrolytic Cap. 4.7uF 50V	1
C651, 652	CP1891	(on Headphone Board) CAPACITOR 680pF 10% 50V	2

Diodes

D51, 52, 53, 54, 55, 56, 57, 58, 63, 64	DI1201	Diode Rectifier 1 A 400V	10
D60, 61	DI1204	Zener Diode 0.4W	2
D62	DI1192	Zener Diode 0.4W (T/R,2"")	1
D65, 66, 581,582, 585, 586, 587, 588, 589	DI1205	Switching Diode 90V 0.3W	9
D67, 584, 631	DI1196	Zener Diode 0.4W	3
D591, 592, 593, 594	DI1206	Switching Diode 40V 0.3W	4

Integrated Circuits

IC51	IC1232	IC Voltage Regulator +6VDC	1
IC52	IC1234	IC Voltage Regulator -6VDC	1
IC53	IC1307	IC VOLTAGE REGULATOR +5V, TO-220	1
IC501	IC1245	IC ELECTRICAL VOLUME	1
IC503	IC1248	IC	1
IC504, 505, 506	IC1226	IC	1
IC581	IC1219	IC	1
IC582	IC1320	IC EPROM 128K x 8 DIP32	1
IC583	IC1259	IC SMD 32KBYTE CMOS STAT. RAM	1
IC584	IC1265	IC LOW PWR CLOCK/CALENDAR	1
IC585	IC1277	IC, EEPROM, 256x8, CMOS SERIAL BUS	1
IC586	IC1254	IC SMD OCTAL-D-TYPE LATCH	1
IC587	IC1270	IC SMD DUAL 2-to-4 LINE DECODER	1
IC589, 590	IC1269	IC	2
IC591	IC1313	IC QUAD LOW-PWR LINE DRIVER	1
IC592	IC1283	IC SMD DUAL 2-INPUT AND GATE	1
IC595	IC1236	IC	1
IC601	IC1262	IC	1
PH591	IC1241	Photocoupler	1

Resistors

R5, 13, 514, 519, 520, 533, 534, 549, 550, 555, 556, 581	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	11
R51	RS2261	RES C/F 1Kohm 5% 1/3W	1
R52, 640	RS2341	RES C/F 100 ohm 5% 1/3W	2
R53	RS2389	RES C/F 4.7Kohm 5% 1/3W	1

Ref.#	Part #	Description	Qty
R55	RS2315	RES FUSE 4.7 ohm 2% 1/4W	1
R61, 63, 527, 528, 543, 544, 551, 552, 557, 558, 576, 577, 578, 590, 596, 621, 628, 631, 651, 661	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	20
R62, 64, 507, 508, 601, 602, 623, 653, 663, 664, 665, 666, 672	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	
R517, 518, 629	RS2226	RES C/F MIN 1Mohm 5% 1/4W	3
R523, 524	RS2231	RES C/F MINI 18Kohm 5%, 1/4W	2
R529, 530	RS2240	RES C/F MINI 3.3Kohm 5%, 1/4W	2
R592, 595	RS2247	RES C/F MINI 47 ohm 5%, 1/4W	2
R501, 502	RS2260	RES C/F MINI 8.2Kohm 5%, 1/4W	2
R503, 504, 515, 516, 525, 526	RS2242	RES C/F MINI 330Kohm 5%, 1/4W	6
R505, 506, 574, 575, 582, 583, 584, 585, 586, 587, 597, 598, 603, 604, 611, 612, 622, 624, 627, 633, 634, 637, 652, 662	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	24
R531, 532, 541, 542, 553, 554, 559, 560	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	8
R535, 536, 593, 671	RS2250	RES C/F MINI 47Kohm 5%, 1/4W	4
R588, 607, 608	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	3
R589, 605, 606, 625, 626, 630	RS2235	RES C/F MINI 22Kohm 5%, 1/4W	6
R591	RS2237	RES C/F MINI 270 ohm 5%, 1/4W	8
R594	RS2339	RES C/F MINI 3.9Kohm 5%, 1/4W	1
R599, 600	RS2212	SMD RES 4.7Kohm 5% 1/10W	2
R609, 610, 632	RS2233	RES C/F MINI 22 ohm 5%, 1/4W	3
R635, R641	RS2290	RES C/F 180 ohm 5% 1/3W	2
R654	RS2222	RES C/F MINI 100 ohm 5%, 1/4W	1
R681, 682	RS2211	SMD RES 470 ohm 5% 1/10W	2

Transistors

Q51	TR1304	NPN XSTR 60V/3A 25W, TO-220	1
Q52	TR1281	PNP XSTR 60V/3A 25W 2-10R1A	1
Q501, 502, 541, 542, 543, 544, 547, 548, 601, 602	TR1283	NPN XSTR 20V/300mA 400mW 3501200 TO-92	10
Q581, 586, 588	TR1269	PNP XSTR 50V/30mA 300mW 22K/22K SPT	3
Q582, 587	TR1268	NPN XSTR 50V/30mA 300mW 22K/22K SPT	2
Q589, 592	TR1291	NPN XSTR 50V/200mA 300mW 250500 TO-92	2
Q591	TR1272	PNP XSTR 50V/100mA 300mW 4.7K/4.7K SPT	1
Q593	TR1290	PNP XSTR 50V/200mA 300mW 250500 TO-92	1
Q631	TR1341	NPN XSTR 30V/800mA 600mW 100200 TO-92	1

Ref.#	Part #	Description	Qty

Connectors

CN51	CO1363	Connector 11P 2mm 2A 100V	1
CN52, 504	CO1367	Connector 3P 2mm 2A 100V	2
CN505	CO1382	CONNECTOR 4P 2MM 2A 100V	1
CN506	CO1370	Connectors 6P 2mm 2A 100V	1
CN507	CO1369	Connector 5P 2mm 2A 100V	1
CN508	CO1383	CONNECTOR HEADER 7-PIN	1
CN509	CO1388	CONNECTOR 10P 2mm 2A 100V	1
CN510	CO1389	CONNECTOR 14P 2mm 2A 100V	1
CW51	HA1166	HARNESS ASSY	1
CW502	HA1214	HARNESS ASY 11-COND 160mm	1
CW507	HA1210	(on Headphone Board) HARNESS ASY 5-COND 200mm	1
J501	CO1358	Connector 2.5A25OV	1
J502	CO1402	CONNECTOR 34-POS	1
J503, 504	CO1375	Jack 1P	2

Miscellaneous

CW503	HA1112	CONNECTORIZES WIRE 13P	1
FB601-FB616	FI1011	FILTER EMI	16
FB623-FB643, 651, 652, 653, 654, 655	CC1065	FERRITE CHIP BEAD On Headphone Board	26
EF501, 502, 503, 504, 508, 509, 510	FI1018	FILTER, EMI	7
EF505, 506, 507	FI1017	EMI FILTER 4-CIRCUIT CAP 100pF 50V SMD	3
EF511, 512, 601, 602, 603, 604	FI1014	FILTER EMI	6
F51	FS1090	FUSE SLOW BLOW 500mA 250V	1
HL51, 52	FH1007	Fuse Holder	2
L51	FI1020	EMI FILTER	1
L52	FI1013	FILTER EMI	1
LB1265	Bar Code Traceability Label		2
J601	CO1374	(on Headphone Board) Miniture Jack LR-SW	1
S51	SW1078	Push Switch 1P TV3	1
T51	MI1209	TRANSFORMER TOP UNIT (EU)	1
X591	XT1011	"XTAL, 15MHZ"	1
X592	XT1006	Xtal 10pF	1
	CO1418	(USE WITH IC582) CONNECTOR IC SOCKET DIP32	1
	BR1542	STEEL SHIELD PLATE	1
	HS1155	HEATSINK, AMPLIFIER	3
	SC1262	(USE WITH HS1155) "SCREW, BND + (M3x10)"	3
	CL1236	CLUSTER BD FEST. 60/70/80 PRE-AMP & HEADPHONE	1
	RS1711	REWORK PER INSTRUCTION SMD RES 220 ohm 5% 1/8W	1
	SC1271	(use with Transformer Bracket) Screw Fpt+	1
	332501-001	(use with Transformer T51) "BRACKET, MTG,XFORMER"	1
	SP1102	(locate on bottom of board) INSULATOR RUBBER	1

SA1799 "PRE-AMP PCB, FEST-70 EU"

Ref.#	Part #	Description	Qty
B501	CP1811	Super Capacitor 1F	1
C51, 52, 57	CP1700	Electrolytic Cap. 2200uF, 16V	3
C55, 56, 58	CP1706	Electrolytic Cap. 1uF 50V	3
C59, 61	CP1863	ELECTROLYTIC CAP. 220UF, 63V	2
C64, 573, 608	CP1697	CAP, ELECT. 100uF, 16V	3
C67, 574, 575, 576, 577, 578, 579, 590 591, 595, 596, 597, 598, 599, 600, 607	CP1911	SMD CAP 0.1uF 10% 25V	16
C68, 588	CP1725	Metallized Flm Cap. 0.22uF, 50V	2
C70, 71	CP1843	CAP.CERAM, 4700pF, 250V	2
C72, 73, 74, 75, 76, 77, 78, 507, 508 523, 524, 539, 572, 605, 606, 632, 641, 642, 643, 644	CP1722	Metallized Flm Cap. 0.01uF, 50V	20
C501, 502, 509, 510, 511, 512, 515, 516, 517, 518, 541, 542, 543, 544, 547, 548 561, 564, 565, 566, 581, 601, 602, 634	CP1701	Electrolytic Cap. 47uF 16V	24
C503, 504	CP1732	Pol. Prop. Flm Cap. 1500pF, 50V	2
C505, 506	CP1717	CAP, MTL.FILM, 0.1uF, 50V	2
C513, 514	CP1777	CAPACITOR CERAMIC 22pF 50V, 5%	2
C519, 520	CP1815	Cap Poly Film 15nF 5% 50V	2
C521, 522	CP1817	Cap Poly Film 68nF 5% 50V	2
C525, 526, 562	CP1719	Metalized Flm Cap 0.039uF, 50V	3
C535, 536	CP1702	Electrolytic Cap. 470uF 16V	2
C537, 538, 540	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V	3
C651, 652	CP1891	(on Headphone Board) CAPACITOR 680pF 10% 50V	2
C568, 569, 570, 582, 583, 584, 585, 586, 587	CP1733	Pol. Prop. Flm Cap 220pF, 50V	9
C571, 589	CP1707	Electrolytic Cap. 10uF 50V	2
C592, 593	CP1887	SMD CAP 15pF 5% 50V	2
C594	CP1878	CAPACITOR 10pF 50V	1
C609	CP1757	CERAMIC CAP 0.01uF 50V	1
C636	CP1711	Electrolytic Cap. 4.7uF 50V	1

Diodes

D51, 52, 53, 54, 55, 56, 57, 58, 63, 64	DI1201	Diode Rectifier 1 A 400V	10
D60, 61	DI1204	Zener Diode 0.4W	2
D62	DI1192	Zener Diode 0.4W (T/R,2"")	1
D65, 66, 581, 582, 585, 586, 587, 588, 589	DI1205	Switching Diode 90V 0.3W	9
D67, 584, 631	DI1196	Zener Diode 0.4W	3
D591, 592, 593, 594	DI1206	Switching Diode 40V 0.3W	4

Integrated Circuits

IC51	IC1232	IC Voltage Regulator +6VDC	1
IC52	IC1234	IC Voltage Regulator -6VDC	1
IC53	IC1307	IC VOLTAGE REGULATOR +5V, TO-220	1
IC501	IC1245	IC ELECTRICAL VOLUME	1
IC502	IC1244	IC	1
IC503	IC1248	IC	1
IC504, 505, 506, 507	IC1226	IC	4
IC581	IC1219	IC	1
IC582	IC1320	IC EPROM 128K x 8 DIP32	1
IC583	IC1259	IC SMD 32KBYTE CMOS STAT. RAM	1
IC584	IC1265	IC LOW PWR CLOCK/CALENDAR	1
IC585	IC1277	IC, EEPROM, 256x8, CMOS1 SERIAL BUS	
IC586	IC1254	IC SMD OCTAL-D-TYPE LATCH	1
IC587	IC1270	IC SMD DUAL 2-to-4 LINE DECODER	1
IC589, 590	IC1269	IC	1
IC591	IC1313	IC QUAD LOW-PWR LINE DRIVER	1
IC592	IC1283	IC SMD DUAL 2-INPUT AND GATE	1
IC595	IC1236	IC	1
IC601	IC1262	IC	1
PH591	IC1241	Photocoupler	1

Resistors

R51	RS2261	RES C/F 1Kohm 5% 1/3W	1
R52, 640	RS2341	RES C/F 100 ohm 5% 1/3W	2
R53	RS2389	RES C/F 4.7Kohm 5% 1/3W	1
R55	RS2315	RES FUSE 4.7 ohm 2% 1/4W	1
R61, 63, 527, 528, 543, 544, 551, 552, 557, 558, 561, 567, 569, 572, 576, 577, 578, 590, 596, 621, 628, 631, 651, 661	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	24
R62, 64, 507, 508, 511, 512, 601 602, 623, 653, 663, 664, 665, 666, 672	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	15
R501, 502	RS2260	RES C/F MINI 8.2Kohm 5%, 1/4W	2
R503, 504, 515, 516, 525, 526	RS2242	RES C/F MINI 330Kohm 5%, 1/4W	6
R505, 506, 509, 510, 574, 575, 582, 583, 584, 585, 586, 587, 598, 603, 604, 611, 612, 622, 624, 627, 633, 634, 637, 662	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	24
R513, 514, 519, 520, 533, 534, 549, 550, 555, 556, 562, 566, 570, 571, 581	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	15
R517, 518, 629	RS2226	RES C/F MIN 1Mohm 5% 1/4W	3
R523, 524	RS2231	RES C/F MINI 18Kohm 5%, 1/4W	1
R529, 530	RS2240	RES C/F MINI 3.3Kohm 5%, 1/4W	2
R531, 532, 541, 542, 553, 554, 559, 560, 568, 573	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	10

Ref.#	Part #	Description	Qty
R535, 536, 593, 671	RS2250	RES C/F MINI 47Kohm 5%, 1/4W	4
	RS1711	REWORK PER INSTRUCTION SMD RES 220 ohm 5% 1/8W	1
R563, 564, 579	RS2291	RES C/F MINI 27Kohm 5%, 1/4W	3
R565	RS1376	RES C/F MINI 910 ohm 5%, 1/4W	1
R580	RS2476	RES C/F MINI 3Kohm 5%, 1/4W	1
R588, 607, 608	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	3
R589, 605, 606, 625, 626, 630	RS2235	RES C/F MINI 22Kohm 5%, 1/4W	6
R591	RS2237	RES C/F MINI 270 ohm 5%, 1/4W	1
R592, 595	RS2247	RES C/F MINI 47 ohm 5%, 1/4W	2
R594	RS2244	RES C/F MINI 3.9Kohm 5%, 1/4W	1
R599, 600	RS2212	SMD RES 4.7Kohm 5% 1/10W	2
R609, 610, 632	RS2233	RES C/F MINI 22 ohm 5%, 1/4W	3
R635, R641	RS2290	RES C/F 180 ohm 5% 1/3W	2
R654	RS2222	RES C/F MINI 100 ohm 5%, 1/4W	2
R681, 682	RS2211	SMD RES 470 ohm 5% 1/10W	2

Transistors

Q51	TR1304	NPN XSTR 60V/3A 25W, TO-220	1
Q52	TR1281	PNP XSTR 60V/3A 25W 2-10R1A	1
Q501, 502, 503, 504, 541, 542, 543, 544, 545, 546, 547, 548, 601, 602,	TR1283	NPN XSTR 20V/300mA 400mW 350 1200 TO-92	
Q581, 586, 588	TR1269	PNP XSTR 50V/30mA 300mW 22K/22K SPT	3
Q582, 584, 587	TR1268	NPN XSTR 50V/30mA 300mW 22K/22K SPT	3
Q589, 592	TR1291	NPN XSTR 50V/200mA 300mW 250500 TO-92	2
Q591	TR1272	PNP XSTR 50V/100mA 300mW 4.7K/4.7K SPT	1
Q593	TR1290	PNP XSTR 50V/200mA 300mW 250500 TO-92	1
Q631	TR1341	NPN XSTR 30V/800mA 600mW 100200 TO-92	1

Connectors

CN51	CO1363	CONNECTOR 11P 2mm 2A 100V	1
CN52, 504	CO1367	CONNECTOR 3P 2mm 2A 100V	2
CN505	CO1382	CONNECTOR 4P 2MM 2A 100V	1
CN506	CO1370	Connectors 6P 2mm 2A 100V	1
CN507	CO1369	Connector 5P 2mm 2A 100V	1
CN508	CO1383	CONNECTOR HEADER 7-PIN	1
CN509	CO1388	CONNECTOR 10P 2mm 2A 100V	1
CN510	CO1389	CONNECTOR 14P 2mm 2A 100V	1
CW51	HA1166	HARNESS ASSY	1
CW501	HA1109	CONNECTORIZES WIRE 8P	1
CW502	HA1214	HARNESS ASY 11-COND 160mm	1
CW503	HA1112	CONNECTORIZES WIRE 13P	1
CW507	HA1210	(on Headphone Board) HARNESS AS Y 5-COND 200mm	1
J501	CO1358	Connector 2.5A25OV	1
J502	CO1402	CONNECTOR 34-POS	1
J503, 504	CO1375	Jack 1P	2
J506	CO1390	CONNECTOR 8P	1
J601	CO1374	(on Headphone Board) Miniture Jack LR-SW	1

Miscellaneous

EF501, 502, 503, 504, 508, 509, 510	FI1018	FILTER, EMI	6
EF505, 506, 507	FI1017	EMI FILTER 4-CIRCUIT CAP 100pF 50V SMD	3
EF511, 512, 601, 602, 603, 604	FI1014	FILTER EMI	6
F51	FS1090	FUSE SLOW BLOW 500mA 250V	1
FB623-FB643, 651, 652, 653, 654, 655	CC1065	INSTALL IN SMD MACHINE FERRITE CHIP BEAD On Headphone Board	26
FB601-FB616 620,621,622	FI1011	FILTER EMI	19
HL51, 52	FH1007	Fuse Holder	2
L51	FI1020	EMI FILTER	1
L52	FI1013	FILTER EMI	1
S51	SW1078	Push Switch 1P TV3	1
T51	MI1209	TRANSFORMER TOP UNIT (EU)	1
X592	XT1006	Xtal 10pF	1
X591	XT1011	XTAL, 15MHZ	1
	HS1155	HEATSINK, AMPLIFIER	1
	SC1262	(use with HS1155) SCREW, BND + (M3x10)"	3
	SC1271	(use with Transformer Bracket) Screw Fpt+	4
	CO1418	(USE WITH IC582) CONNECTOR IC SOCKET DIP32	1
	CL1236	CLUSTER BD FEST. 60/70/80 PRE-AMP & HEADPHONE	1
	SP1102	(locate on bottom of board) INSULATOR RUBBER	1
	332501-001	(use with Transformer T51) BRACKET, MTG,XFORMER	1
	BR1542	STEEL SHIELD PLATE	1
	LB1265	Bar Code Traceability Label	2

SA1800 TUNER BOARD ASY (EU)

Capacitors

C201, 207, 217, 235, 237, 252	CP1769	Semiconductor Cap. 0.047uF, 25V	6
C202, 305, 310	CP1701	Electrolytic Cap. 47uF 16V	3
C204, 205, 206, 215, 231, 238, 239, 273, 306	CP1741	Ceramic Cap. 0.022uF 50V	9
C216, 240, 242, 258, 261, 262, 263	CP1707	Electrolytic Cap. 10uF 50V	7
C218	CP1747	Ceramic Cap. 5pF 50V	1
C219	CP1751	Ceramic Cap. 82pF 50V	1
C220	CP1748	Ceramic Cap. 7pF 50V	1

Ref.#	Part #	Description	Qty
C232, 234	CP1711	Electrolytic Cap. 4.7uF 50V	2
C233, 253, 255, 256, 271	CP1706	Electrolytic Cap. 1uF 50V	5
C236	CP1778	Cap. Ceramic 4700pF 50V 10%	1
C241	CP1710	CAP, ELEC; 3.3uF 50V	1
C243, 246, 259, 260, 277	CP1742	Ceramic Cap. 220pF 50V	5
C245, 278, 279, 303, 304	CP1745	Ceramic Cap. 15pF 50V	5
C251	CP1697	CAP, ELECT. 100uF, 16V	1
C254	CP1693	CAP, ELEC; 0.22uF 50V	1
C272	CP1699	CAP, ELEC; 220uF 16V	1
C274	CP1698	Electrolytic Cap. 22uF 16V	1
C275, 276	CP1749	Ceramic Cap. 100pF 50V	2
C301, 302	CP1743	Ceramic Cap. 330pF 50V	2
C307	CP1709	Electrolytic Cap. 2.2uF 50V	1
C308	CP1795	CAP, ELEC; 0.1uF 50V	1
C309	CP1744	Ceramic Cap. 560pF 50V	1
CF201, 202, 203	FI1009	Ceramic Filter 10.7MHz 180KHZ	3
CF231	CR1004	Ceramic Resonator 450KHz	1
CF251	CR1005	Ceramic Osc	1
L251, 252	FI1008	FILTER,AUDIO LC, VARIABLE	2

Diodes

D231, 251, 271, 272, 273	DI1205	Switching Diode 90V 0.3W	5

Intergrated Circuits

IC231	IC1267	IC	1
IC251	IC1268	IC	1
IC271	IC1233	IC	1
IC301	IC1230	IC, RADIO DATA SYSTEM DEMODULATOR	1
IC302	IC1237	IC	1

Resistors

R201, 204, 205, 210, 237, 272, 274, 276, 277, 278	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	10
R202, 203, 211, 213	RS2332	RES C/F MINI 390 ohm 5%, 1/4W	4
R206, 212	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	2
R207, 208, 214	RS2222	RES C/F MINI 100 ohm 5%, 1/4"	3
R209	RS2248	RES C/F MINI 470 ohm 5%, 1/4W	1
R215, 216, 219, 265, 266, 267, 268, 307	RS2234	RES C/F MINI 2.2Kohm 5%, 1/4W	8
R217	RS2230	RES C/F MINI 15Kohm 5%, 1/4W	1
R218, 263, 264, 271,273	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	5
R220, 304, 305, 306	RS2225	RES C/F MINI 100Kohm 5%, 1/4W"	4
R231	RS2256	RES C/F MINI 68Kohm 5%, 1/4W	1
R232	RS2277	RES C/F MINI 270Kohm 5%, 1/4W	1
R233	RS2275	RES C/F MINI 180 ohm 5%, 1/4W	1
R234	RS2253	RES C/F MINI 5.6Kohm 5%, 1/4W	1
R235	RS2231	RES C/F MINI 18Kohm 5%, 1/4W	1
R236	RS2280	RES C/F MINI 82 ohm 5%, 1/4W	1
R238	RS2374	RES C/F MINI 12Kohm 5%, 1/4W	1
R239, 282	RS2291	RES C/F MINI 27Kohm 5%, 1/4W	2
R240	RS2241	RES C/F MINI 33Kohm 5%, 1/4W	1
R241, 252	RS2240	RES C/F MINI 3.3Kohm 5%, 1/4W	2
R242, 243, 246, 253, 260, 283, 284, 302, 303	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	8
R245	RS2233	RES C/F MINI 22 ohm 5%, 1/4W	1
R247, 251, 256	RS2318	RES C/F MINI 6.8Kohm 5%, 1/4W	3
R254, 255, 258, 259	RS2236	RES C/F MINI 220Kohm 5%, 1/4W	4
R261, 262	RS2229	RES C/F MINI 1.5Kohm 5%, 1/4W	2
R280	RS2250	RES C/F MINI 47Kohm 5%, 1/4W	1
R301	RS2226	RES C/F MIN 1Mohm 5% 1/4W	1
VR231	RS2189	POT, TRIMMER, 50K OHM	1
VR251	RS2420	TRIM-POT 200Kohm	1

Transistors

Q201, 202	TR1276	NPN XSTR 25V/50mA 300MHz 82180 SPT	2
Q215, 216, 217, 251, 252	TR1277	NPN XSTR 20V/500mA 500mW 8201800 SPT	5
Q253	TR1268	NPN XSTR 50V/30mA 300mW 22K/22K SPT	1
Q254	TR1269	PNP XSTR 50V/30mA 300mW 22K/22K SPT	1
Q271, 272, 273, 274	TR1272	PNP XSTR 50V/100mA 300mW 4.7K/4.7K SPT	4
Q301	TR1279	N-CH FET 50V/6.5mA 300mW, TO-92	1
Q302	TR1278	PNP XSTR 50V/150mA 300mW 180390 SPT	1
Q303	TR1273	NPN XSTR 50V/100mA 300mW 4.7K/4.7K SPT	1

Miscellaneous

L231	FI1005	LC COMPOSITE, VARIABLE COIL	1
LCN301	HA1193	HARNESS ASSY	1
LCN251	HA1173	HARNESS, WIRE 13P	1
JP201, 203, 204, 207-210, 212-226 JP228-235, 237-239 241-255	WI1702	JUMPER WIRE 24 AWG BARE	48
JP209B - SELECTS EUROPEAN VERSION, DO NOT INSTALL JP209A			
RF215	RF1001	RF Block Prime-Time	1
T231	IF1001	IF BLOCK 450KHZ, CERAMIC FILTER W/ MATCHING COIL	1
T232	MI1178	Discri(Type KM)10.7MHz	1
T233	MI1177	Discri(Type 7KM) 107MHz	1
TM201	TE1203	Terminal	1
TU201	TU1002	TUNER FM	1
	PC1180	PCB CD Tuner	1
X271	XT1003	XTAL.OSC 4500KHz	1
X301	XT1002	Xtal.OSC 4332KHz Prm-time	1
X302	CR1001	Ceralock 4MHz Prime-Time	1
	BR1543	STEEL SHIELD PLATE	1

Ref.#	Part #	Description	Qty
	LB1265	Bar Code Traceability Label	2

SA1801 AMP PRIMARY BOARD ASY

HL1, 2	FH1007	Fuse Holder	2
F1	FS1072	Fuse 1.6A AC 250V	1
CW401	HA1207	HARNESS DOUBLE INSULATED	1

SA1805 "PRE-AMP BD, FEST-80 EU"

Capacitors

B501	CP1811	Super Capacitor 1F	1
C51, 52, 57	CP1700	Electrolytic Cap. 2200uF, 16V	3
C55, 56, 58	CP1706	Electrolytic Cap. 1uF 50V	3
C59, 61	CP1863	ELECTROLYTIC CAP. 220UF, 63V	2
C67, 574, 575, 576, 577, 578, 579, 590, 591, 595, 596, 597, 598, 599, 600, 607	CP1911	SMD CAP 0.1uF 10% 25V	16
C68, 588	CP1725	Metallized Flm Cap. 0.22uF, 50V	2
C70, 71	CP1843	CAP.CERAM, 4700pF, 250V	2
C72, 73, 74, 75, 76, 77, 78, 507, 508, 523, 524, 539, 572, 605, 606, 632, 641, 642, 643, 644	CP1722	Metallized Flm Cap. 0.01uF, 50V	20
C64, 573, 608	CP1697	CAP, ELECT. 100uF, 16V	3
C501, 502, 509, 510, 511, 512, 515, 516 517, 518 ,541, 542, 547, 548, 561, 564 565, 566, 581, 601, 602, 634	CP1701	Electrolytic Cap. 47uF 16V	22
C503, 504	CP1732	Pol. Prop. Flm Cap. 1500pF, 50V	2
C505, 506	CP1717	CAP, MTL.FILM, 0.1uF, 50V	2
C513, 514	CP1777	CAPACITOR CERAMIC 22pF 50V, 5%	2
C519, 520	CP1815	Cap Poly Film 15nF 5% 50V	2
C521, 522	CP1817	Cap Poly Film 68nF 5% 50V	2
C525, 526, 562	CP1719	Metalized Flm Cap 0.039uF, 50V	3
C535, 536	CP1702	Electrolytic Cap. 470uF 16V	2
C537, 538, 540	CP1731	Pol. Prop. Flm Cap. 1000pF, 50V	3
C568, 569, 570, 582, 583, 584, 585, 586, 587	CP1733	Pol. Prop. Flm Cap 220pF, 50V	9
C571, 589	CP1707	Electrolytic Cap. 10uF 50V	2
C592, 593	CP1887	SMD CAP 15pF 5% 50V	2
C594	CP1878	CAPACITOR 10pF 50V	1
C609	CP1757	CERAMIC CAP 0.01uF 50V	1
C636	CP1711	Electrolytic Cap. 4.7uF 50V	1
C651, 652	CP1891	(on Headphone Board) CAPACITOR 680pF 10% 50V	2
C681, 682	RS2211	SMD RES 470 ohm 5% 1/10W	2
EF501, 502, 503, 504, 508, 509, 510	FI1018	FILTER, EMI	7
EF505, 506, 507"	FI1017	EMI FILTER 4-CIRCUIT CAP 100pF 50V SMD	3
EF511, 512, 601, 602, 603, 604	FI1014	FILTER EMI	6
FB601-FB616, 620, 621, 622	FI1011	FILTER EMI	19
FB623-FB643, 651, 652, 653, 654, 655	CC1065	FERRITE CHIP BEAD On Headphone Board	26
L52	FI1013	FILTER EMI	1

Diodes

D51, 52, 53, 54, 55, 56, 57, 58, 63, 64	DI1201	Diode Rectifier 1 A 400V	
D62	DI1192	Zener Diode 0.4W	1
D60, 61	DI1204	Zener Diode 0.4W	2
D65, 66, 581, 582, 585, 586, 587, 588, 589	DI1205	Switching Diode 90V 0.3W	9
D67, 584, 631	DI1196	Zener Diode 0.4W	3
D591, 592, 593, 594	DI1206	Switching Diode 40V 0.3W	4

Integrated Circuits

IC51	IC1232	IC Voltage Regulator +6VDC	1
IC52	IC1234	IC Voltage Regulator -6VDC	1
IC53	IC1307	IC VOLTAGE REGULATOR +5V, TO-220	1
IC501	IC1245	IC ELECTRICAL VOLUME	1
IC502	IC1244	IC	1
IC503	IC1248	IC	1
IC504, 505, 506, 507	IC1226	IC	4
IC581	IC1219	IC Prime-Time	1
IC582	IC1320	IC EPROM 128K x 8 DIP32	1
IC583	IC1259	IC SMD 32KBYTE CMOS STAT. RAM	1
IC584	IC1265	IC LOW PWR CLOCK/CALENDAR	1
IC585	IC1277	IC, EEPROM, 256x8, CMOS SERIAL BUS	1
IC586	IC1254	IC SMD OCTAL-D-TYPE LATCH	1
IC587	IC1270	IC SMD DUAL 2-to-4 LINE DECODER	1
IC589, 590	IC1269	IC	1
IC591	IC1313	IC QUAD LOW-PWR LINE DRIVER	1
IC592	IC1283	IC SMD DUAL 2-INPUT AND GATE	1
IC595	IC1236	IC	1
IC601	IC1262	IC	1
PH591	IC1241	Photocoupler	2

Resistors

R51	RS2261	RES C/F 1Kohm 5% 1/3W	1
R52, 640	RS2341	RES C/F 100 ohm 5% 1/3W	2
R53	RS2389	RES C/F 4.7Kohm 5% 1/3W	1
R55	RS2315	RES FUSE 4.7 ohm 2% 1/4W	1

Ref.#	Part #	Description	Qty
R61, 63, 527, 528, 543, 544, 557 558, 561, 567, 569, 572, 576, 577, 578, 590, 596, 621, 628, 631, 651, 661	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	22
R62, 64, 507, 508, 511, 512, 601, 602, 623, 653, 663, 664, 665, 666, 672	RS2224	RES C/F MIN 10Kohm 5%, 1/4W	
R501, 502	RS2260	RES C/F MINI 8.2Kohm 5%, 1/4W	2
R503, 504, 515, 516, 525, 526	RS2242	RES C/F MINI 330Kohm 5%, 1/4W	6
R505, 506, 509, 510, 574, 575 ,582 583, 584, 585, 586, 587, 598, 603, 604, 611, 612, 622, 624, 627, 633, 634, 637, 652, 662	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	25
R513, 514, 519, 520, 533, 534, 555, 556 562, 566, 570, 571, 581	RS2239	RES C/F MINI 330 ohm 5%, 1/4W	15
R517, 518 ,629	RS2226	RES C/F MIN 1Mohm 5% 1/4W	3
R523, 524	RS2231	RES C/F MINI 18Kohm 5%, 1/4W	2
R529, 530	RS2240	RES C/F MINI 3.3Kohm 5%, 1/4W	2
R531, 532, 541, 542, 559, 560, 568, 573	RS2238	RES C/F MINI 2.7Kohm 5%, 1/4W	8
R535, 536, 593, 671	RS2250	RES C/F MINI 47Kohm 5%, 1/4W	4
R563, 564, 579	RS2291	RES C/F MINI 27Kohm 5%, 1/4W	3
R565	RS1376	RES C/F MINI 910 ohm 5%, 1/4W	1
R580	RS2476	RES C/F MINI 3Kohm 5%, 1/4W	1
R588, 607, 608	RS2249	RES C/F MINI 4.7Kohm 5%, 1/4W	3
R589, 605, 606, 625, 626, 630	RS2235	RES C/F MINI 22Kohm 5%, 1/4W	6
R591	RS2237	RES C/F MINI 270 ohm 5%, 1/4W	1
R592, 595	RS2247	RES C/F MINI 47 ohm 5%, 1/4W	2
R594	RS2244	RES C/F MINI 3.9Kohm 5%, 1/4W	1
R599, 600	RS2212	SMD RES 4.7Kohm 5% 1/10W	2
R609, 610, 632	RS2233	RES C/F MINI 22 ohm 5%, 1/4W	3
R654	RS2222	RES C/F MINI 100 ohm 5%, 1/4W	1
R635, R641	RS2290	RES C/F 180 ohm 5% 1/3W	2
	RS1711	REWORK PER INSTRUCTION SMD RES 220 ohm 5% 1/8W	

Transistors

Q51	TR1304	NPN XSTR 60V/3A 25W, TO-220	1
Q52	TR1281	PNP XSTR 60V/3A 25W 2-10R1A	1
Q501, 502, 503, 504, 543, 544, 545, 546, 547, 548, 601, 602	TR1283	NPN XSTR 20V/300mA 400mW 3501200 TO-92	
Q581, 586, 588	TR1269	PNP XSTR 50V/30mA 300mW 22K/22K SPT	3
Q582, 584, 587	TR1268	NPN XSTR 50V/30mA 300mW 22K/22K SPT	3
Q589, 592	TR1291	NPN XSTR 50V/200mA 300mW 250500 TO-92	2
Q591	TR1272	PNP XSTR 50V/100mA 300mW 4.7K/4.7K SPT	1
Q593	TR1290	PNP XSTR 50V/200mA 300mW 250500 TO-92	1
Q631	TR1341	NPN XSTR 30V/800mA 600mW 100200 TO-92	1

Connectors

CN51	CO1363	CONNECTOR 11P 2mm 2A 100V	1
CN52, 504	CO1367	CONNECTOR 3P 2mm 2A 100V	2
CN505	CO1382	CONNECTOR 4P 2MM 2A 100V	1
CN506	CO1370	Connectors 6P 2mm 2A 100V	1
CN507	CO1369	Connector 5P 2mm 2A 100V	1
CN508	CO1383	CONNECTOR HEADER 7-PIN	1
CN509	CO1388	CONNECTOR 10P 2mm 2A 100V	1
CN510	CO1389	CONNECTOR 14P 2mm 2A 100V	1
CW51	HA1166	HARNESS ASSY	1
CW501	HA1109	CONNECTOR WIRE 8P	1
CW502	HA1214	HARNESS ASY 11-COND 160mm	1
CW503	HA1112	CONNECTORIZES WIRE 13P	1
CW507	HA1210	(on Headphone Board) HARNESS ASY 5-COND 200mm	1
J501	CO1358	Connector 2.5A25OV	1
J502	CO1402	CONNECTOR 34-POS	1
J601	CO1374	(on Headphone Board) Miniture Jack LR-SW	1
J503, 504	CO1375	Jack 1P	2
J506	CO1390	CONNECTOR 8P	1

Miscellaneous

F51	FS1090	FUSE SLOW BLOW 500mA 250V	1
HL51, 52	FH1007	Fuse Holder	2
L51	FI1020	EMI FILTER	1
S51	SW1078	Push Switch 1P TV3	1
T51	MI1209	TRANSFORMER TOP UNIT (EU)	1
X592	XT1006	Xtal 10pF	1
X591	XT1011	XTAL, 15MHZ	1
	LB1265	Bar Code Traceability Label	2
	BR1542	STEEL SHIELD PLATE	1
	HS1155	HEATSINK, AMPLIFIER	1
	SC1262	(use with HS1155) SCREW, BND + (M3x10)	1
	SC1271	(use with Transformer Bracket) Screw Fpt+	4
	332501-001	(use with Transformer T51) BRACKET, MTG,XFORMER	1
	CO1418	(USE WITH IC582) CONNECTOR IC SOCKET DIP32	1
	CL1236	CLUSTER BD FEST. 60/70/80 PRE-AMP & HEADPHONE	1
	SP1102	(locate on bottom of board) INSULATOR RUBBER	1

Ref.#	Part #	Description	Qty

SA1818 SUB-WFR AMP PCB ASSY

Capacitors

C1501, 1502, 1503, 1504, 1505	CP1814	Cap Alum El 47uF 20% 35V	5
C1508, 1509, 1510, 1511	CP1750	Ceramic Cap. 68pF 50V	4
C1512	CP1733	Pol. Prop. Flm Cap 220pF, 50V	1
C1514, 1515, 1516, 1517	CP1730	Polypropylen Flm Cap 100pF, 50V	1
C1551, 1552, 1553, 1554	CP1863	ELECTROLYTIC CAP. 220uF 63V	4

Integrated Circuit

IC1501, 1502, 1503	IC1226	IC	3

Resistors

R1501, 1502, 1503, 1504, 1505	RS2223	RES C/F MINI 1Kohm 5%, 1/4W	5
R1506, 1507, 1508, 1509, 1519	RS2225	RES C/F MINI 100Kohm 5%, 1/4W	5
R1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518	RS2234	RES C/F MINI 2.2Kohm 5%, 1/4W	9
R1551, 1552	RS2169	RES FUSE 2.2 ohm 5% 1/4W	2
R1553, 1554	RS2389	RES C/F 4.7Kohm 5% 1/3W	2

Transistors

Q1551	TR1344	NPN XSTR 120V/800mA 900mW 80160 TO-92	1
Q1552	TR1330	PNP XSTR 120V/800mA 900mW 80160 TO-92	1

Diode

D1551, 1552	DI1219	ZENER 12V	2

Connectors

PJ1501	CO1408	CONNECTOR PIN JACK	1
CN1501, 1502, 1503	CO1410	CONNECTOR 3P 2mm	3

SA1821 SUB ASSY AMP#2 INDICATOR

D1021, 1022, 1023, 1024	LE1037	LED	4
JP9, 12	WI1702	JUMPER WIRE 24 AWG BARE	2
R1025, 1026, 1027, 1028	RS2234	RES C/F MINI 2.2Kohm 5%, 1/4W	4
R1029, 1030, 1039, 1040	RS2401	RES C/F MINI 1.2Kohm 5%, 1/4W	4
CW1405	HA1160	HARNESS 300mm 3P-SA	1

Ref.#	Part #	Description	Qty

SA1822 SUB ASSY AMP#2 PRIMARY

HL1001,1002	FH1007	Fuse Holder	2
F1001	FS1072	Fuse 1.6A AC 250V	1
CW1401	HA1207	HARNESS DOUBLE INSULATED	1

SA1823 SUB ASSY AMP#2 SECONDARY

C1002, 1003	CP1717	CAP, MTL.FILM, 0.1uF, 50V	2
C1013	CP1699	CAP, ELEC; 220uF 16V	1
D1004, 1005, 1006, 1007	DI1201	Diode Rectifier 1 A 400V	4
R1043, 1044	RS2384	RES FUSE 2.2 ohm 5% 1/4W	2
CW1403	HA1159	HARNESS 120mm 2P-SA	1
CW1404	HA1191	HARNESS ASSY	1

SA1825 "DISPLAY PCB ASSY, U.S."

Capacitors

C1201, 1203, 1205, 1207, 1209, 1238, 1243, 1244, 1245, 1246	CP1821	CAP., CHIP 0.1uF 50V	10
C1202, 1204, 1206, 1208, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226 1227, 1228, 1229, 1230, 1231, 1239, 1242	CP1822	CAP. CHIP 0.33uF 50V	28
C1232, 1233, 1234	CP1799	CAP, Chip 100 pF 50V	3
C1235, 1236	CP1812	Cap, Chip 12pF 50V	2
C1237	CP1707	Electrolytic Cap. 10uF 50V	1
C1240, 1241	CP1849	CAP.ELECT. 33uF, 50V	2

Integrated Circuits

IC1201	IC1314	IC MICOM OTP 16MHz 0-70C 68-PIN PLCC PKG	1
IC1202	IC1254	IC SMD OCTAL-D-TYPE LATCH	1
IC1203	IC1259	IC SMD 32KBYTE CMOS STAT. RAM	1
IC1204	IC1253	IC SMD 20-BIT VFD ANODE/ GRID DRIVER	1
IC1205, 1206, 1207	IC1252	IC 40-BIT VFD GRID ANODE DRIVER	3
IC1208	IC1250	IC 32-BIT LED DRIVER	1
IC1209, 1210, 1211, 1212,1213,1214	IC1263	SMD IC 5V VOLTAGE REG.	6
IC1215	IC1276	IC SMD INVERTER HIGH SPEED	1

Diodes

Ref.#	Part #	Description	Qty
D1201, 1202, 1203, 1204,1205,1206, 1207, 1219, 1222, 1225, 1228, 1229, 1230, 1231, 1234, 1237	LE1041	LED GREEN	16
D1208-D1218, 1238, 1239, 1240, 1241	LE1040	LED GREEN	15

Resistors

R1201-R1210, 1215, 1217, 1219, 1221, 1222, 1223, 1224, 1226, 1228, 1253, 1254, 1255	RS2206	SMD RES 270 ohm 5% 1/10W	22
R1211, 1212, 1213, 1214, 1264, 1265	RS2430	SMD RES 82 ohm 5% 1/10W	6
R1229, 1231, 1233, 1235, 1237, 1239, 1285	RS2211	SMD RES 470 ohm 5% 1/10W	7
R1230, 1232, 1234, 1236, 1238, 1240, 1250, 1251	RS1292	SMD RES 10Kohm 5% 1/10W	8
R1241	RS2213	SMD RES 47Kohm 5% 1/10W	1
R1252	RS2219	SMD RES 8.2Kohm 5% 1/10W	1
R1256, 1257, 1258, 1259, 1260, 1261, 1262,1263	RS2193	SMD RES 100Kohm 5% 1/10W	8
R1266, 1268, 1269, 1270	RS2408	SMD RES 560 ohm 5% 1/10W	4

Transistors

Q1201, 1202, 1203, 1204, 1205, 1206	TR1302	SMD NPN XSTR 50V/1A 500mW 120270 MPT3	6
Q1207	TH1018	TRIAC	1
Q1208	TR1310	SMD NPN XSTR 50V/30mA 200mW 22K/22K SMT3	1
Q1209	TR1311	SMD PNP XSTR 50V/30mA 200mW 22K/22K SMT3	1

Miscellaneous

FB1201-FB1220	CC1065	FERRITE CHIP BEAD	20
FL1201	DS1001	Display VFD	1
L1203	MI1220	INDUCTOR	1
JP1202	HA1211	HARNESS ASY 14-COND 160mm	1
JP1201	HA1212	HARNESS ASY 10-COND 160mm	1
	LB1265	Bar Code Traceability Label	2
PCB1201	PC1236	PC,DISPLAY BD, 68PIN-PLCC	1
S1201-S1223	SW1085	SWITCH	23
X1201	XT1008	Xtal, Osc 24MHz	1

SA1826 "DISPLAY PCB ASSY, EU"

Capasitors

C1201, 1203, 1205, 1207, 1209, 1238, 1243, 1244, 1245, 1246	CP1821	CAP., CHIP 0.1uF 50V	10
C1202, 1204, 1206, 1208, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1226, 1227 1227, 1228, 1229, 1230, 1231, 1239, 1242	CP1822	CAP. CHIP 0.33uF 50V	28
C1232, 1233, 1234	CP1799	CAP, Chip 100 pF 50V	3
C1235, 1236	CP1812	Cap, Chip 12pF 50V	2
C1237	CP1707	Electrolytic Cap. 10uF 50V	1
C1240, 1241	CP1849	CAP.ELECT. 33uF, 50V	2

Integrated Circuits

IC1201	IC1314	IC MICOM OTP 16MHz 0-70C 68-PIN PLCC PKG	1
IC1202	IC1254	IC SMD OCTAL-D-TYPE LATCH	1
IC1203	IC1259	IC SMD 32KBYTE CMOS STAT. RAM	1
IC1204	IC1253	IC SMD 20-BIT VFD ANODE/ GRID DRIVER	1
IC1205, 1206, 1207	IC1252	IC 40-BIT VFD GRID ANODE DRIVER	3
IC1208	IC1250	IC 32-BIT LED DRIVER	1
IC1209, 1210, 1211, 1212, 1213, 1214	IC1263	SMD IC 5V VOLTAGE REG.	6
IC1215	IC1276	IC SMD INVERTER HIGH SPEED	1

Transistors

Q1201, 1202, 1203, 1204, 1205, 1206	TR1302	SMD NPN XSTR 50V/1A 500mW 120270 MPT3	6
Q1207	TH1018	TRIAC	1
Q1208	TR1310	SMD NPN XSTR 50V/30mA 200mW 22K/22K SMT3 T/R	1
Q1209	TR1311	SMD PNP XSTR 50V/30mA 200mW 22K/22K SMT3 T/R	1

Diodes

D1201-D1207, 1219, 1222, 1225, 1228, 1229, 1230, 1231, 1234, 1237	LE1041	LED GREEN	16
D1208 - D1218, 1238, 1239, 1240, 1241	LE1040	LED GREEN	15

Resistors

R1201-1210, 1215, 1217, 1219, 1221, 1222, 1223, 1224, 1226, 1228, 1253, 1254,1255	RS2206	SMD RES 270 ohm 5% 1/10W	
R1211, 1212, 1213, 1214, 1264, 1265	RS2430	SMD RES 82 ohm 5% 1/10W	6
R1229, 1231, 1233, 1235, 1237, 1239, 1285	RS2211	SMD RES 470 ohm 5% 1/10W	7
R1230, 1232, 1234, 1236,1238, 1240, 1250, 1251	RS1292	SMD RES 10Kohm 5% 1/10W	8

Ref.#	Part #	Description	Qty
R1241	RS2213	SMD RES 47Kohm 5% 1/10W	
R1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263	RS2193	SMD RES 100Kohm 5% 1/10W	8
R1252	RS2219	SMD RES 8.2Kohm 5% 1/10W	1
R1266, 1268, 1269, 1270	RS2408	SMD RES 560 ohm 5% 1/10W	4

Miscellaneous

FB1201, 1202, 1203, 1204,1205,1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220	CC1065	FERRITE CHIP BEAD	20
FL1201	DS1001	Display VFD	1
L1203	MI1220	INDUCTOR	1
JP1202	HA1211	HARNESS ASY 14-COND 160mm	1
JP1201	HA1212	HARNESS ASY 10-COND 160mm	1
	LB1265	Bar Code Traceability Label	2
PCB1201	PC1236	PC,DISPLAY BD, 68PIN-PLCC	1
S1201 - S1223,	SW1085	SWITCH	23
X1201	XT1008	Xtal, Osc 24MHz	1

SA1898 CD MAIN PCB ASSY

Capasitors

C1, 2	CP1866	ELECTROLYTIC CAP. 4700uF, 16V	2
C3, 4	CP1853	CAP ALUM EL 2,200uF 20%	2
C5, 7, 15, 18	CP1717	CAP, MTL.FILM, 0.1uF, 50V	4
C8, 9, 16, 19, 24, 27, 522, 526	CP1706	Electrolytic Cap. 1uF 50V	8
C14, 20, 22, 29, 307, 314, 507, 508, 511, 517, 520, 521	CP1814	Cap Alum El 47uF 20% 35V	12
C17, 25, 30, 108, 137, 138, 151, 152, 157, 158, 201, 202, 203, 204, 205, 206, 207, 208, 209, 523, 524	CP1821	CAP., CHIP 0.1uF 50V	21
C101, 156, 159	CP1763	Ceramic Cap. 0.047uF 50V	3
C102	CP1759	Ceramic Cap. 1500pF 50V	1
C103, 106, 118, 123, 125, 128, 129, 140, 212	CP1757	CERAMIC CAP 0.01uF 50V	9
C104	CP1888	SMD CAP 220pF 10% 50V	1
C105, 516	CP1713	Electrolytic Cap. 0.47uF, 50V	2
C107, 127, 141, 142, 210, 211	CP1697	CAP, ELECT. 100uF, 16V	6
C109, 110	CP1887	SMD CAP 15pF 5% 50V	2
C112	CP1891	CAPACITOR 680pF 10% 50V	1
C113, 114, 115, 133	CP1758	CERAMIC CAP. 0.1uF 25V	4
C116	CP1711	Electrolytic Cap. 4.7uF 50V	1
C117, 122	CP1762	Ceramic Cap. 0.033uF 50V	2
C119	CP1889	SMD CAP 100pF 5% 50V	1
C120, 136	CP1708	Electrolytic Cap. 22uF 50V	2
C121	CP1710	CAP, ELEC; 3.3uF 50V	1
C124, 132, 505, 525	CP1870	CERAMIC CAPACITOR 0.022uF 50V	4
C126	CP1890	CAPACITOR 47pF 5% 50V SMD	1
C131	CP1873	CERAMIC CAPACITOR 4700pF 50V	1
C134	CP1849	CAP.ELECT. 33uF, 50V	1
C135, 518, 519	CP1880	CAP, 3pF, 50V	3
C143, 144, 145	CP1885	SMD CAP 470pF 10% 50V	3
C301, 308, 317, 318	CP1735	Pol. Prop. Flm Cap 390pF, 50V	4
C302, 305, 310, 311	CP1869	POLYPROPYLENE FILM CAP. 180pF 50V	4
C303, 304, 309, 312	CP1868	POLYPROPYLENE FILM CAP. 270pF 50V	4
C306, 313	CP1740	Pol. Prop. Flm Cap. 8200pF, 50V	2
C509, 510	CP1699	CAP, ELEC; 220uF 16V	2
C515	CP1886	CAL ALUM EL 1000uF 20%, 16V	3

Integrated Circuits

IC2	IC1300	IC	1
IC3, 4	IC1301	IC SMD 5V TRACKING REG.	2
IC101	IC1223	IC	1
IC102	IC1222	IC	1
IC103, 104, 105, 301	IC1141	SMD IC OP AMP Dual Plastic	4
IC201	IC1328	IC 8-BIT MICROCOMPUTER MASKED (HKD0001C)	1
C202, 203	IC1235	IC SMD REVERSIBLE MOTOR DRIVER	2
IC501	IC1284	IC SMD QUAD 2-CH MUX	1
IC502, 503	IC1302	PHOTOCOUPLER	2
IC504	IC1285	IC SMD DIFFERENTIAL 4-CH MUX/DEMUX	1
IC505	IC1313	IC QUAD LOW-PWR LINE DRIVER	1
IC506	IC1286	IC,SMD HEX INVERTER	1
IC507	IC1310	IC VOLTAGE REGULATOR +5V	1
IC508	IC1305	IC	1

Resistors

JP207	RS2462	RES C/F ZERO ohm 5% 1/8W	1
R2, 4, 125, 153, 156, 207, 209, 210, 211, 251	RS2213	SMD RES 47Kohm 5% 1/10W	10
R3, 6, 9, 10, 13, 14, 201, 322, 323, 326, 327	RS2212	SMD RES 4.7Kohm 5% 1/10W	11
R7, 8, 11, 12, 208, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 252, 253, 254, 255, 331, 332	RS2190	SMD RES 100 ohm 5% 1/10W	49
R15, 522	RS2405	SMD RES 1.5Kohm 5% 1/10W	2

Ref.#	Part #	Description	Qty
R17, 106, 108, 109, 121, 134, 203, 300 301, 302, 303, 304, 305, 311, 312, 313, 314, 315, 316, 523	RS2192	SMD RES 10Kohm 5% 1/10W	20
R101, 103, 151, 157	RS2207	SMD RES 3.3Kohm 5% 1/10W	4
R102, 120	RS2197	SMD RES 120Kohm 5% 1/10W	2
R104, R107	RS2194	SMD RES 1Mohm 5% 1/10W	2
R105, 110, 115, 129, 308, 319, 510, 511, 517	RS2193	SMD RES 100Kohm 5% 1/10W	9
R111, 117, 306, 307, 317, 318	RS2198	SMD RES 15Kohm 5% 1/10W	6
R112	RS2218	SMD RES 680Kohm 5% 1/10W	1
R113, 128	RS2199	SMD RES 150Kohm 5% 1/10W	2
R114	RS2216	SMD RES 510Kohm 5% 1/10W	1
R116, 119	RS2220	SMD RES 82Kohm 5% 1/10W	2
R118	RS2219	SMD RES 8.2Kohm 5% 1/10W	1
R122, 126, 127	RS2196	SMD RES 12Kohm 5% 1/10W	3
R123, 124	RS2404	SMD RES 43 ohm 5% 1/10W	2
R130, 135, 226, 524	RS2191	SMD RES 1Kohm 5% 1/10W	4
R131	RS2214	SMD RES 470Kohm 5% 1/10W	1
R132, 152	RS2209	SMD RES 330Kohm 5% 1/10W	2
R133	RS2391	SMD RES 27Kohm 5% 1/10W	1
R136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 147, 158, 167, 328, 329, 330	RS2204	SMD RES 22Kohm 5% 1/10W	16
R146	RS2394	SMD RES 6.8Kohm 5% 1/10W	1
R148	RS2245	RES C/F MINI 39Kohm 5%, 1/4W	1
R166	RS2407	SMD RES ZERO ohm 5% 1/10W	1
R202	RS2200	SMD RES 1.8Kohm 5% 1/10W	1
R204, 206	RS2395	SMD RES 180 ohm 5% 1/10W	2
R256, 309, 320, 501, 502, 503, 504, 525	RS2211	SMD RES 470 ohm 5% 1/10W	8
R257	RS2208	SMD RES 33Kohm 5% 1/10W	1
R512	RS2393	SMD RES 680 ohm 5% 1/10W	1
R513, 521	RS2408	SMD RES 560 ohm 5% 1/10W	2
R514, 515, 516	RS2203	SMD RES 220 ohm 5% 1/10W	3
R518, 519, 520	RS2411	SMD RES 390 ohm 5% 1/10W	3
R154, 155, 505, 506	RS2195	SMD RES 10 ohm 5% 1/10W	4
RN202	RS2272	RES NETWORK 47Kohm (10x)	1

Transisters

Q3, 7, 9	TR133	PNP XSTR 30V/800mA 600mW 100200 TO-92	3
Q4, 8, 302, 503, 507	TR1310	SMD NPN XSTR 50V/30mA 200mW 22K/22K	5
Q5	TR1281	PNP XSTR 60V/3A 25W 2-10R1A TUBE	1
Q6, 10, 141, 143, 145, 147	TR1341	NPN XSTR 30V/800mA 600mW 100200 TO-92	6
Q11	TR1334	SMD PNP XSTR 50V/50mA 200mW 10K/10K	1
Q12	TR1337	SMD NPN XSTR 50V/70mA 200mW 10K/47K	1
Q101, 102, 142, 144, 146, 148	TR1338	TRANSISTOR	6
Q303, 504	TR1311	SMD PNP XSTR 50V/30mA 200mW 22K/22K	2
Q501, 502, 505, 506	TR1283	NPN XSTR 20V/300mA 400mW 3501200 TO-92	4

Diodes

D1, 2, 3, 4, 5, 6, 11, 12, 203, 208	DI1201	Diode Rectifier 1 A 400V	10
D10, 101, 205, 206, 209	DI1206	Switching Diode 40V 0.3W	5
D201, 202	DI1213	DIODE, ZENER, SMD	2

Connectors

CN101, 103	CO1370	Connectors 6P 2mm 2A 100V	2
CN102	CO1371	Connectors 8P 2mm 2A 100V	1
CN203	CO1382	CONNECTOR 4P 2MM 2A 100V	1
CN205	CO1384	Connector	1
CN204	CO1364	Connector 12P 2mm 2A 100V	1
CN251	CO1365	CONNECTOR 13P 2MM 2A100V	1
CN301, 701	CO1369	Connector 5P 2mm 2A 100V	2
LCN101	HA1170	HARNESS FESTIVAL	1
LCN102	HA1171	HARNESS FESTIVAL	1
LCN103	HA1167	HARNESS FESTIVAL	1
LCN203	HA1168	HARNESS FESTIVAL	1
LCN204	HA1169	HARNESS FESTIVAL	1
LCN205	HA1172	HARNESS FESTIVAL	1
LCN601	HA1216	HARNESS ASY 11-COND 100mm	1
LCN602	HA1215	HARNESS ASY 6-COND 100mm	1
J101	TE1210	TERMINAL	1
J201	CO1303	Connector Header 3-Pos 0.1	1
TP101, 102, 103, 107, 108	TE1212	TERMINAL	5

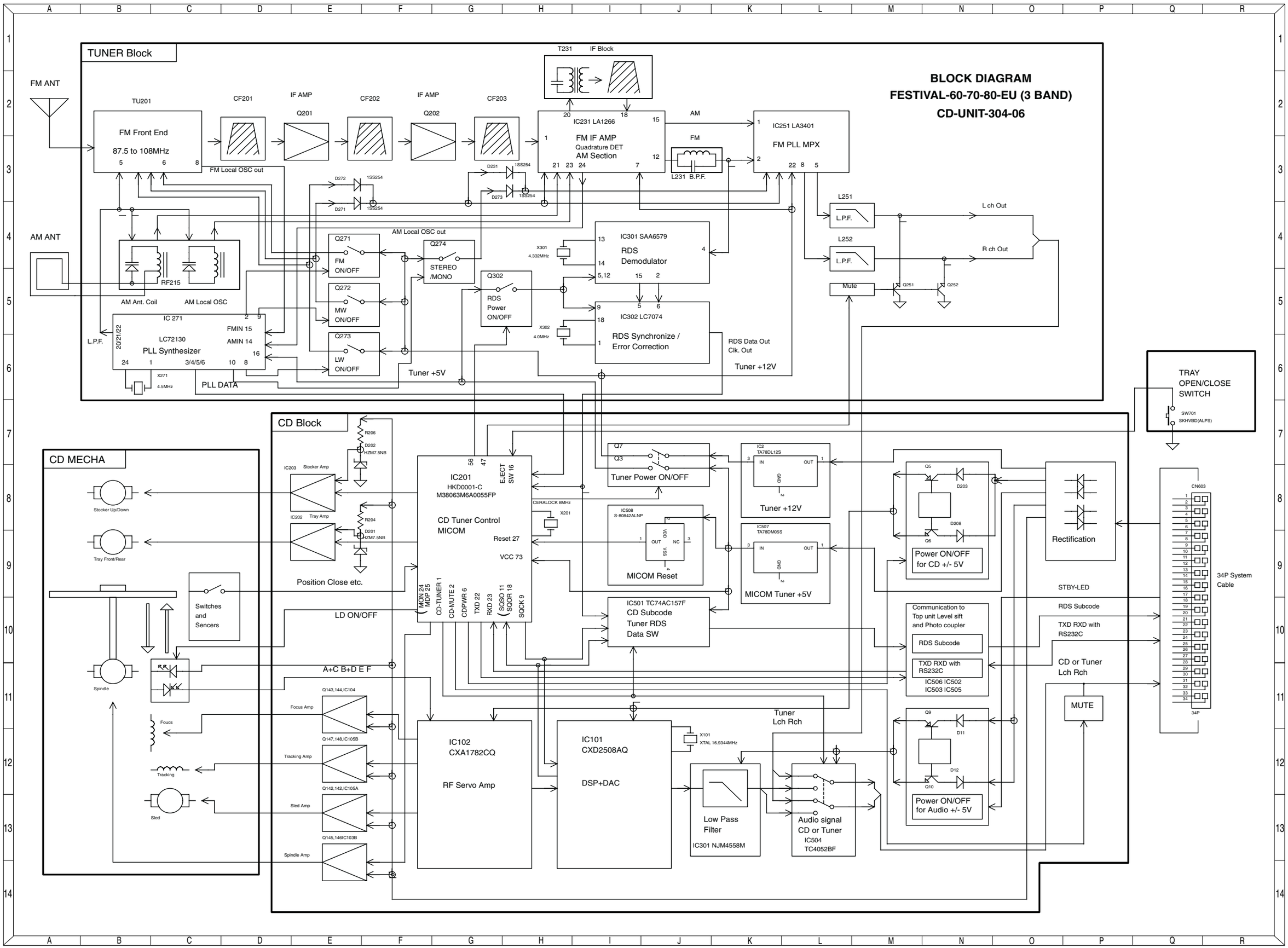
Miscellaneous

PCB101	PC1181	PCB CD 250x100 DBL-SIDED	1
L201	MI1219	INDUCTOR	1
	LB1265	Bar Code Traceability Label	2
VR101	RS2187	POT, TRIMMER, 10K-OHM	1
X101	XT1005	Xtal, Osc 16.9344MHz	1
X201	CR1002	Ceralock 8MHz	1

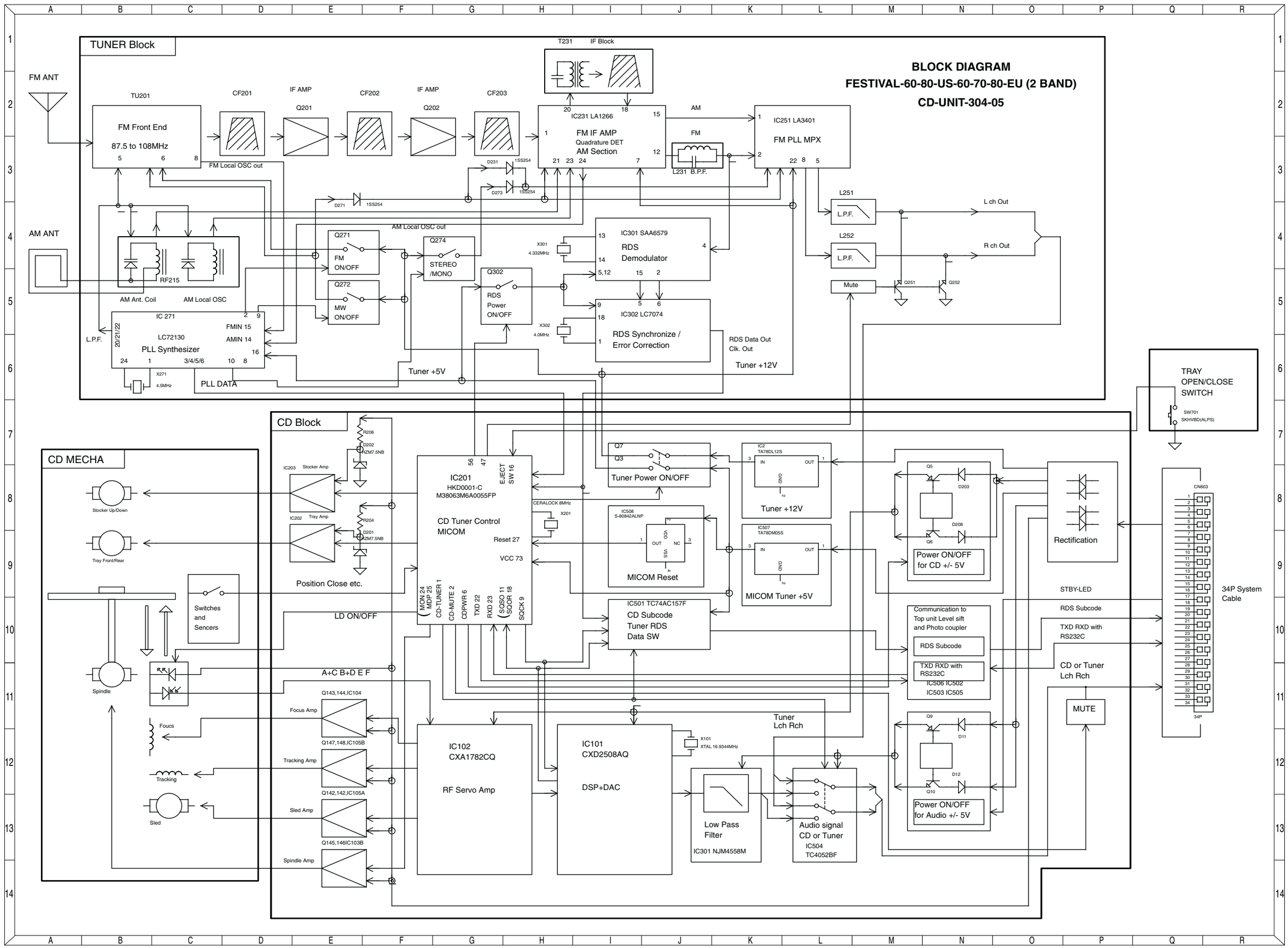
MISSING

On Schematics where IC diagrams are missing pin out information
STILL NEEDED

Festival BLOCK DIAGRAM (60/80 European 3 Band)

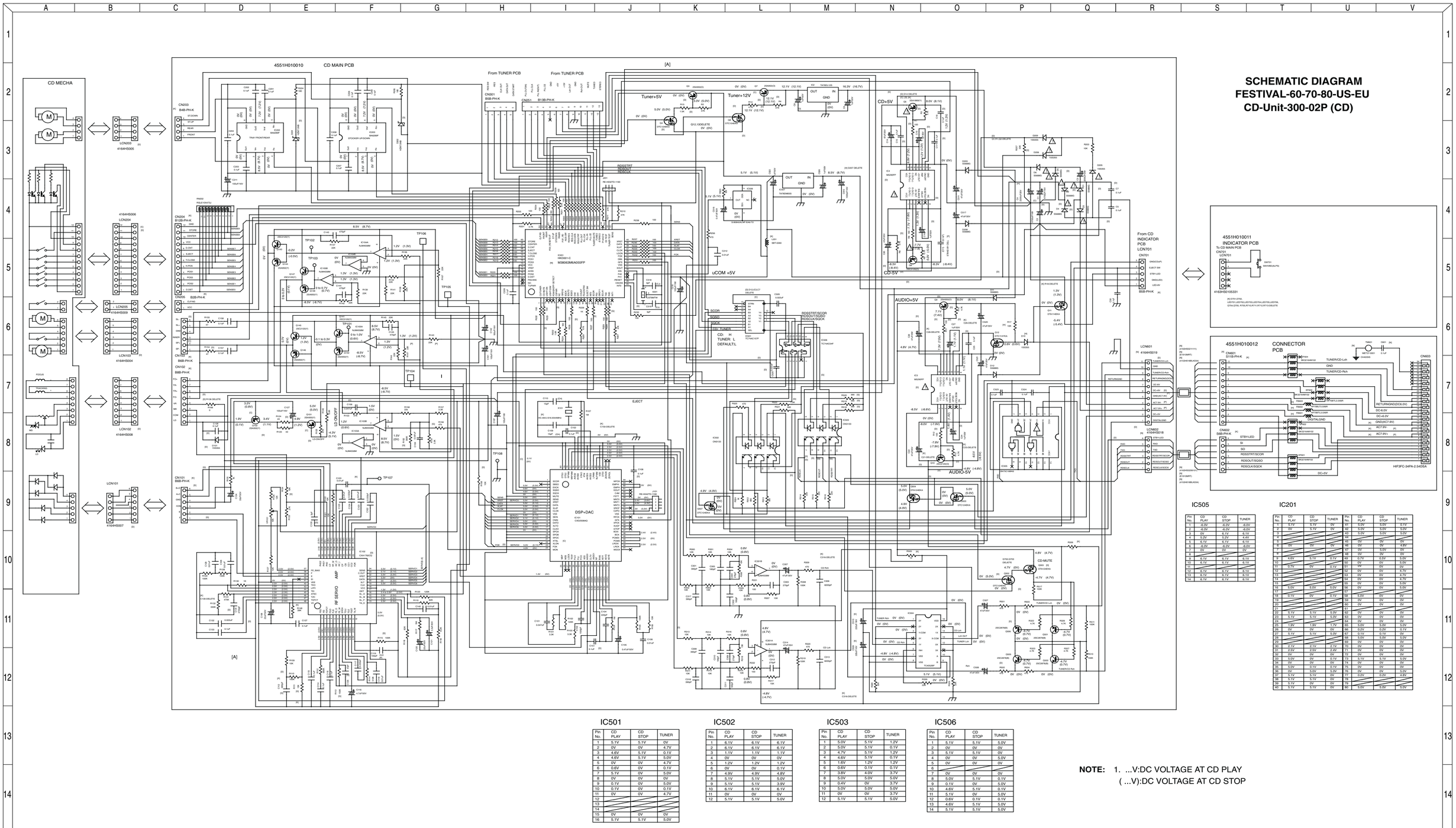


Festival BLOCK DIAGRAM (60/80 US, 60/80 European 2 Band)



Festival CD SCHEMATIC DIAGRAM (60/80 US & Europe)

SCHEMATIC DIAGRAM
FESTIVAL-60-70-80-US-EU
CD-Unit-300-02P (CD)



IC505

Pin No.	CD PLAY	CD STOP	TUNER
1	-6.0V	-6.0V	-6.0V
2	-5.0V	-5.0V	-5.0V
3	0V	6.1V	6.1V
4	5.2V	5.2V	4.4V
5	6.1V	6.1V	6.1V
6	-6.0V	-6.0V	-6.0V
7	0V	0V	0V
8			
9	6.1V	6.1V	6.1V
10	6.1V	6.1V	6.1V
11			
12	6.1V	6.1V	6.1V
13	6.1V	6.1V	6.1V
14	6.1V	6.1V	6.1V

IC201

Pin No.	CD PLAY	CD STOP	TUNER	Pin No.	CD PLAY	CD STOP	TUNER
1	5.1V	5.1V	0V	41	5.0V	5.0V	0.1V
2	0V	5.1V	0V	42	5.1V	5.0V	0V
3				43	5.0V	5.0V	5.0V
4				44			
5				45	0V	0V	0V
6	5.1V	0V	0V	46	0V	0V	4.8V
7				47	0V	5.0V	0V
8				48	0V	0V	0V
9	4.6V	5.1V	5.1V	49	0.7V	0.5V	5.0V
10	0V	0V	0V	50	0V	0V	5.0V
11	0.1V	0V	0V	51	1V	0V	0V
12				52	0V	0V	4.7V
13				53	0V	0V	4.7V
14				54	0V	0V	4.7V
15				55	0V	0V	5.0V
16	5.0V	5.0V	0V	56	0V	0V	5.0V
17				57	0V	0V	0V
18	0.1V	0V	0.1V	58	5.0V	0V	0V
19				59	0V	0V	0V
20				60	0V	0V	0V
21				61	0V	0V	0V
22	5.1V	5.1V	5.0V	62	0V	0V	0V
23	5.1V	5.1V	5.0V	63	0V	0V	0V
24				64	0V	0V	0V
25	1.9V	1.9V	5.0V	65	5.0V	5.0V	5.0V
26	0V	0V	0.1V	66	0.2V	0.2V	0.1V
27	5.1V	5.1V	5.0V	67	0.1V	0.1V	0V
28				68	0.1V	0.1V	5.0V
29				69	0V	0V	0V
30	2.1V	2.1V	2.1V	70	0V	0V	0V
31	2.5V	2.5V	2.4V	71	0V	0V	0V
32	0V	0V	0V	72	0V	0V	0V
33	5.0V	0V	0.1V	73	5.1V	5.1V	5.0V
34	0V	0V	3.7V	74	0V	0V	0V
35	5.0V	5.1V	0.1V	75	0V	0V	0V
36	0V	5.0V	3.7V	76	0V	0V	0V
37	5.1V	5.1V	0V	77	0.2V	0.2V	4.8V
38	5.1V	5.1V	0V	78			
39	5.1V	5.1V	0V	79			
40	5.1V	5.1V	0V	80	5.0V	5.0V	5.0V

IC501

Pin No.	CD PLAY	CD STOP	TUNER
1	5.1V	5.1V	0V
2	0V	0V	4.7V
3	4.6V	5.1V	0.1V
4	4.6V	5.1V	5.0V
5	0V	0V	4.7V
6	0.6V	0V	0.1V
7	5.1V	0V	5.0V
8	0V	0V	0V
9	0.1V	0V	5.0V
10	0.1V	0V	0.1V
11	0V	0V	4.7V
12			
13			
14			
15	0V	0V	0V
16	5.1V	5.1V	5.0V

IC502

Pin No.	CD PLAY	CD STOP	TUNER
1	6.1V	6.1V	6.1V
2	6.1V	6.1V	6.1V
3	1.1V	1.1V	1.1V
4	0V	0V	0V
5	1.2V	1.2V	1.2V
6	0V	0V	0.1V
7	4.9V	4.9V	4.8V
8	5.1V	5.1V	5.0V
9	5.1V	5.1V	3.9V
10	6.1V	6.1V	6.1V
11	0V	0V	0V
12	5.1V	5.1V	5.0V

IC503

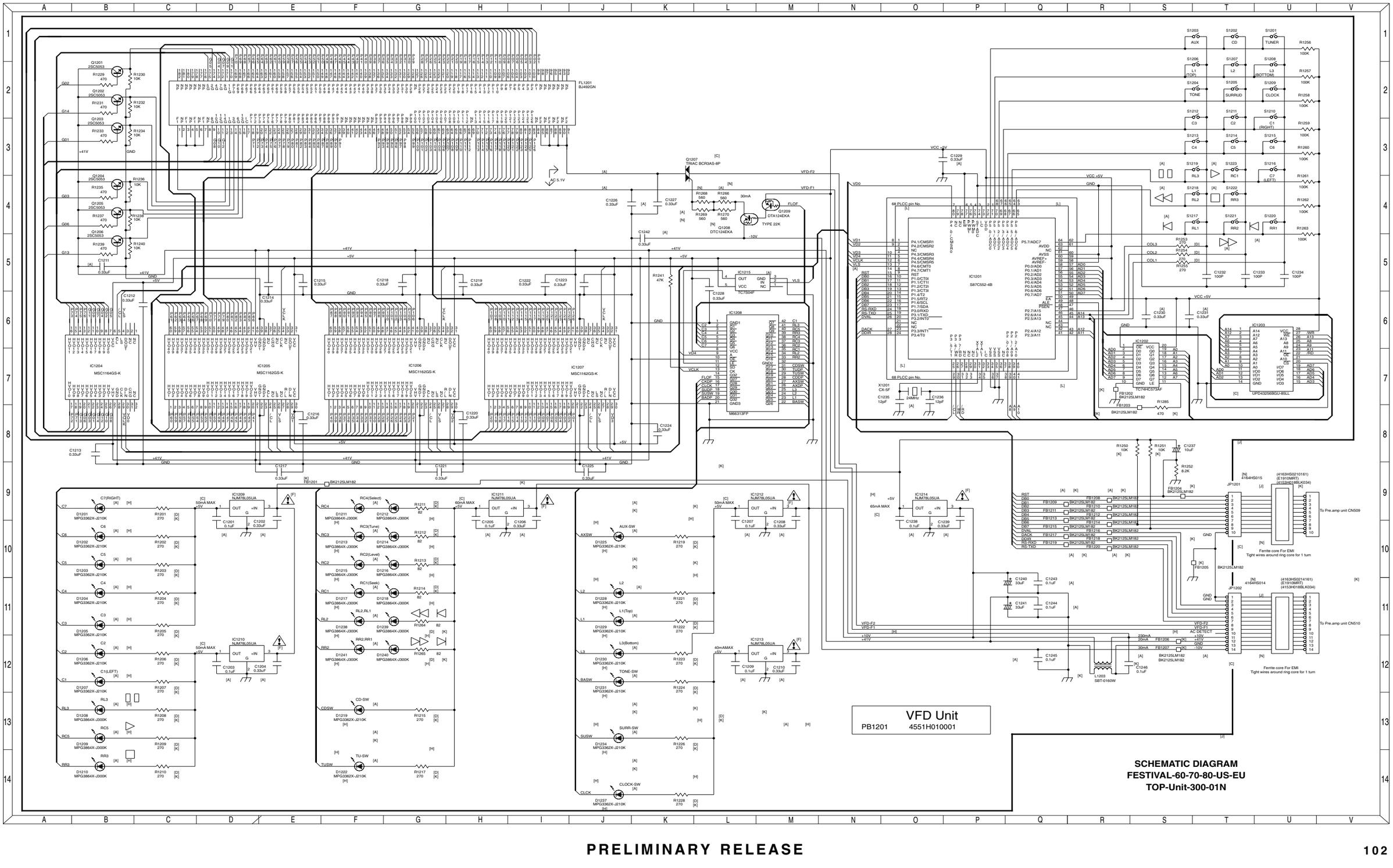
Pin No.	CD PLAY	CD STOP	TUNER
1	5.0V	5.1V	1.2V
2	5.0V	5.1V	0.1V
3	4.7V	5.1V	1.2V
4	4.6V	5.1V	0.1V
5	1.6V	1.2V	1.2V
6	0.6V	0.1V	0.1V
7	3.8V	4.0V	3.7V
8	5.0V	5.0V	5.0V
9	0.4V	0V	3.7V
10	5.0V	5.0V	5.0V
11	0V	0V	3.7V
12	5.1V	5.1V	5.0V

IC506

Pin No.	CD PLAY	CD STOP	TUNER
1	5.1V	5.1V	5.0V
2	0V	0V	0V
3	5.1V	5.1V	0V
4	0V	0V	5.0V
5	0V	0V	0V
6			
7	0V	0V	0V
8	5.0V	5.1V	0.1V
9	0.1V	0V	5.0V
10	4.6V	5.1V	0.1V
11	5.1V	0V	5.0V
12	0.6V	0.1V	0.1V
13	4.6V	5.1V	5.0V
14	5.1V	5.1V	5.0V

NOTE: 1. ...V:DC VOLTAGE AT CD PLAY
(...V):DC VOLTAGE AT CD STOP

Festival SUBWOOFER SCHEMATIC DIAGRAM (80 European)



Festival CD Unit TUNER SCHEMATIC DIAGRAM (60/80 European)(2BAND)(RDS)

CD-Unit TUNER PCB 4551H010009

SCHEMATIC DIAGRAM
Festival-60-70-80-EU(2BAND)(RDS)
CD-UNIT-300-01P (TUNER)

TU 201

PIN NO.	F M
1	0 V
2	0 V
3	0 V
4	0 V
5	1.5-8.0V
6	12V
7	0 V
8	0 V

NOTES

FM 87.5-108.0MHz

MW 522-1611KHz

(RDS)

Festival CD Unit TUNER SCHEMATIC DIAGRAM (60/80 European)(RDS)

CD-Unit TUNER PCB 4551H010009

SCHEMATIC DIAGRAM
Festival 60-70-80 EU (RDS)
CD-UNIT-300-301P (TUNER)

TU 201

PIN NO.	F M
1	0 V
2	0 V
3	0 V
4	0 V
5	1.58-8.0V
6	12V
7	0 V
8	0 V

LOW FREQ.
- HIGH FREQ.

TU201 FM TUNER

ANT ANT AGC GND VT VCC IF OUT OSC OUT

TM201

TEST PIN JP207

JP208

R201 1K

C201 0.047

C202 47/16

SFE10.7MS3GK-A

CF201 CF202 CF203

SFE10.7M S3GK-A

FM 12V

FM 4.6V

C204 0.022

R204 1K

2SC2058S(P) Q201

330 R206

R207 100

2.75V 0.56V

R202 390 R203 390 R208 100

R210 1K

2SC2058S(P) Q202

R212 330

2.33V 0.69V

1.3V 1.43V

R213 390

R211 390

C205 0.022 R209 470

R214 100 C206 0.022

[J]

RF215

MW 1.1V-6.7V
LW 2.05V-6.8V

JP204 TEST PIN

JP203

RF BLOCK

C215 0.022

C216 10/50

2SD2144S(V) Q215 0V 0.74V MW

2SD2144S(V) Q216 0V 0.74V MW

5PF C218

2SD2144S(V) Q217 0V 0.74V LW

C207 0.047

R215 2.2K

216 2.2K

R217 15K

C217 0.047

C219 82PF

R218 4.7K

R219 2.2K

R220 100K

C220 7PF

R205 1K

R273 4.7K

R274 1K

C271 1/50

R271 4.7K

C272 220/16

22/16

0.022 C273

C274 [M]

100PF C275

100PF C276

R283 10K

R272 1K

HC-49/U-S 4500KHz

4.5MHz X271

IC271 LC72130

XIN XOUT BOS CE DI CL DO AOUT2 AIN2 PD2 PD1 AIN1 AOUT1 VDD FMIN AMIN i02 i01 IFIN

C278 15PF (CH)

C279 15PF (CH)

R280 47K [J]

R284 10K

C277 220PF

R276 1K R277 1K R278 1K

R231 68K

C231 0.022

R233 180

T231

R232 270K

IF BLOCK

C232 4.7/50

LW/ MW 11.5V

4.7/50

1/50 C233

12K R238

C234 0.047

C235

5.6K R234

50K VR231

R235 18K

R239 27K

D231 1SS254

BFU450C4N CF231

0.0047 C236

R236 82

R237 1K

TEST PIN JP226

R246 10K

R240 33K

JP225

IC231 LA1266

L231 B.P.F

0.022 C238

0.022 C239

3.3/50 C241

C246 220P

(CH) C245 15PF

C243 220PF

R247 6.8K

10K R243

3.3K R241

T233

T232

10K R242

DISCRI

C240 10/50

R254 22

1SS254 D272

D271 1SS254

1SS254 D273

FM 12V MW 0V LW 0V

FM 0.12V MW 12V LW 12V

FM 0.09V MW 12V LW 0.09V

FM 12V MW 0.12V LW 12V

FM 0.09V MW 0.09V LW 12V

FM 12V MW 12V LW 0.12V

[P]

12V

DTA143ESA Q271

FM DTA143ESA Q272

MW DTA143ESA Q273

LW DTA143ESA Q274

MONO

R282 27K

STEREO 0.09V MONO 12V AM 0.09V

STERO 12V MONO 0.12V AM 12V

NOTES

FM 87.5-108.0MHz

MW 522-1611KHz

LW 144 288KHz

100/16 C251

CSB456F11z CF251

3.3K R252

1/50 C253

C254 0.22/50

1/50 C255

1/50 C256

R10K R253

R251 6.8K

C237 0.047

C252 0.047

IC251 LA3401

C242 10/50

VR251 300K

C258 10/50

R254 220K

220PF C259

R255 220K

220PF C260

R256 6.8K

C261 10/50

R258 220K

R259 220K

C262 10/50

10K R260

C263 10/50

Lch

Rch

L251 L.P.F

L252 L.P.F

[P]

R261 1.5K

R262 1.5K

R263 4.7K

R264 4.7K

2SD2144S Q251 (V)

2SD2144S Q252 (V)

SEEK ON 0.73V OFF 0V

R265 2.2K R267 2.2K R268 2.2K R266 2.2K

DTA124ESA Q254

SEEK ON 0V OFF 12V

12V

SEEK ON 12V OFF 0V

Q253 DTC124ESA

SEEK ON 4.45V OFF 0V

D251 1SS254

STEREO 0.58V MONO 4.82V

LCN251

STEREO
SIG OUT
AUDIO MUT
Rch OUT
GND
Lch OUT
+12V
+5V
GND
PLL CE
PLL OUT
PLL CLK
PLL IN

15PF(CH) C303

HC-49/U-S 4332KHz X 301 4.332MHz

15PF(CH) C304

R303 10K

47/16 C305

0.022 C306

330PF C301

2SK246(GR) Q301 4.95V 0V 2.1V

R301 1M

R302 10K

C302 330PF

IC301 SAA6579T [L]

C307 2.2/50

C308 0.1/50

C309 560P

TUNED 0.03V NO SIGUNAL 4.85V

R304 100K R305 100K R306 100K

CST4.00MGW X302 4.0MHz

IC302 LC7074

C310 47/16

2SA933AS(R) Q302 5.02V

FM 4.96 V MW/LW 0V

FM 4.25V MW /LW

DTC143ESA Q303 0V 0V

FM 4.85V MW/LW 0V

R307 2.2K

FM 0V MW/LW 4.95V

LCN301

DATA START
DATA OUT
CLK OUT
RESET
RDS SW

Festival CD Unit TUNER IC VOLTAGE CHART (60/80 European)(RDS)

IC 251

PIN NO.	F M	M W L W	F M STEREO	F M MONO
1	3.19V	3.19V		
2	3.19V	3.19V		
3	3.22V	3.22V		
4	3.21V	3.21V		
5	5.2V	5.2V		
6	3.2V	3.2V		
7	3.2V	3.2V		
8	5.2V	5.2V		
9	3.19V	3.19V		
10	0 V	8.1V		
11	0 V	0 V		
12	0 V	0 V		
13	4.8V	4.8V		
14	5.0V	0.06V		
15	0.01V	0.01V		
16		2.87V	2.85V	2.85V
17		9.8V	2.8V	7.54V
18		5.8V	2.8V	4.5V
19	2.83V	2.83V	2.8V	3.75V
20		7.5V	2.8V	3.75V
21		1.8V	3.4V	1.8V
22	12.1V	12.1V		

IC 271

PIN NO.	F M	M W	L W	F M STEREO	F M MONO
1	2.5V	2.5V	2.5V		
2	0.1V	12V	12V		
3	0 V	0 V	0 V		
4	0 V	0 V	0 V		
5	5.0V	5.0V	5.0V		
6	5.0V	5.0V	5.0V		
7	0 V	0 V	0 V		
8	12V	12V	0.1V		
9	12V	0.1V	12V		
10		12V	12V	2.8V	7.54V
11	0 V	0 V	0 V		
12	0 V	0 V	0 V		
13	5.0V	5.0V	5.0V		
14	0 V	0 V	0 V		
15	0 V	0 V	0 V		
16	5.0V	5.0V	5.0V		
17	0 V	0 V	0 V		
18	0 V	0 V	0 V		
19					
20					
21					
22					
23	0 V	0 V	0 V		
24	5.0V	5.0V	5.0V		

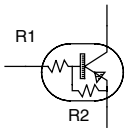
PIN NO.	LOE FREQ. - HIGH FREQ.
	FM 0.19V-0.16V
	MW 0.12V-0.09V
19	LW 0.06V-0.08V
	FM 1.03V-0.83V
	MW 1.05V-0.83V
20	LW 1.05V-0.89V
	FM 1.03V-0.83V
	AM 1.05V-0.83V
21	LW 1.05V-0.89V
	FM 1.58V-8.1V
	MW 1.10V-6.7V
22	LW 2.05V-6.8V

IC 231

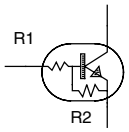
PIN NO.	F M	M W L W
1	2.54V	1.02V
2	2.54V	1.02V
3	2.54V	1.02V
4	0 V	0 V
5	11.5V	11.6V
6	11.5V	11.6V
7	11.5V	11.6V
8	4.86V	4.86V
9	11.4V	3.85V
10	2.1V	2.07V
11	1.8V	1.3V
12	3.0V	3.2V
13	10.3V	10.3V
14	1.5V	1.48V
15	1.49V	1.49V
16	0.5V	0 V
17	0 V	0 V
18	2.5V	1.05V
19	1.5V	1.4V
20	0 V	11.46V
21	4.0V	3.7V
22	4.0V	3.7V
23	4.0V	3.7V
24	3.2V	2.3V

IC 302

PIN NO.	F M	FM RDS TUNED
1	2.27V	2.27V
2	0 V	0 V
3	0 V	0 V
4	4.49V	4.49V
5	2.48V	2.48V
6	2.4-2.6	1.85V
7	4.96V	4.96V
8	0 V	0 V
9	4.96V	4.96V
10	0 V	0 V
11	0 V	0 V
12	0 V	0 V
13	0 V	0 V
14	4.71V	3.6V
15	4.71V	3.0V
16	4.71V	4.63V
17	0 V	0 V
18	2.6V	2.6V



Type	R1	R2
DTA143ESA	4.7K	4.7K
DTA124ESA	22K	22K



Type	R1	R2
DTC124ESA	22K	22K
DTC143ESA	4.7K	4.7K

IC 301

PIN NO.	F M	FM RDS TUNED
1	1.2-1.5	4.96V
2	2.1-2.5	1.86V
3	2.48V	2.48V
4	2.47V	2.47V
5	4.96V	4.96V
6	0 V	0 V
7	2.46V	2.46V
8	4.96V	4.96V
9	0 V	0 V
10	0 V	0 V
11	0 V	0 V
12	4.96V	4.96V
13	2.45V	2.45V
14	2.63V	2.63V
15	2.48V	2.48V
16	2.48V	2.48V

SCHEMATIC DIAGRAM
Festival-60-70-80-EU(RDS)
CD-UNIT-300-01P (TUNER)

Festival CD Unit TUNER SCHEMATIC DIAGRAM (60/80 US)(RDS)

CD-Unit TUNER PCB 4551H010009

SCHEMATIC DIAGRAM
Festival-60-70-80-US(RDS)
CD-UNIT-300-01P (TUNER)

TU 201

PIN NO.	F M
1	0 V
2	0 V
3	0 V
4	0 V
5	1.5-8.0V
6	12V
7	0 V
8	0 V

NOTES

FM 87.5-108.0MHz

MW 530KHz-1710KHz

(RDS)

Festival CD Unit TUNER IC VOLTAGE CHART (60/80 US)(RDS)

IC 251

PIN NO.	F M	A M	F M STEREO	F M MONO
1	3.19V	3.19V		
2	3.19V	3.19V		
3	3.22V	3.22V		
4	3.21V	3.21V		
5	5.2V	5.2V		
6	3.2V	3.2V		
7	3.2V	3.2V		
8	5.2V	5.2V		
9	3.19V	3.19V		
10	0 V	8.1V		
11	0 V	0 V		
12	0 V	0 V		
13	4.8V	4.8V		
14	5.0V	0.06V		
15	0.01V	0.1V		
16		2.87V	2.65V	2.85V
17		9.8V	2.8V	7.54V
18		5.3V	2.8V	4.5V
19	2.83V	2.83V	2.8V	3.75V
20		7.5V	2.8V	3.75V
21		1.8V	3.4V	1.8V
22	12.1V	12.1V		

IC 271

PIN NO.	F M	A M	F M STEREO	F M MONO
1	2.5V	2.5V		
2	0.1V	12.1V		
3	0 V	0 V		
4	0 V	0 V		
5	5.0V	5.0V		
6	5.0V	5.0V		
7	0 V	0 V		
8	0 V	0 V		
9	12.1V	0.1V		
10			12V	0.1V
11	5.0V	5.0V		
12	0 V	0 V		
13	5.0V	5.0V		
14	0 V	2.5V		
15	0 V	0 V		
16	5.0V	5.0V		
17	0 V	0 V		
18	0 V	0 V		
19				
20				
21				
22				
23	0 V	0 V		
24	5.0V	5.0V		

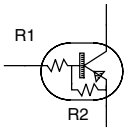
PIN NO.	LOW FREQ. - HIGH FREQ.
	FM 0.19V-0.16V
19	AM 0.12V-0.09V
	FM 1.03V-0.83V
20	AM 1.05V-0.83V
	FM 1.03V-0.81V
21	AM 1.05V-0.83V
	FM 1.58V-8.1V
22	AM 1.0V-7.52V

IC 231

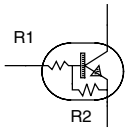
PIN NO.	F M	A M
1	2.54V	1.02V
2	2.54V	1.02V
3	2.54V	1.02V
4	0 V	0 V
5	11.5V	11.6V
6	11.5V	11.6V
7	11.5V	11.6V
8	4.86V	4.86V
9	11.4V	3.85V
10	2.1V	2.07V
11	1.8V	1.3V
12	3.0V	3.2V
13	10.3V	10.3V
14	1.5V	1.48V
15	1.49V	1.49V
16	0.5V	0 V
17	0 V	0 V
18	2.5V	1.05V
19	1.5V	1.4V
20	0 V	11.46V
21	4.0V	3.7V
22	4.0V	3.7V
23	4.0V	3.7V
24	3.2V	2.3V

IC 302

PIN NO.	F M	FM RDS TUNED
1	2.27V	2.27V
2	0 V	0 V
3	0 V	0 V
4	4.49V	4.49V
5	2.48V	2.48V
6	2.4-2.6	1.85V R1
7	4.96V	4.96V
8	0 V	0 V
9	4.96V	4.96V
10	0 V	0 V
11	0 V	0 V
12	0 V	0 V
13	0 V	0 V
14	4.71V	3.6V
15	4.71V	3.0V
16	4.71V	4.63V
17	0 V	0 V
18	2.6V	2.6V



Type	R1	R2
DTA143ESA	4.7K	4.7K
DTA124ESA	22K	22K



Type	R1	R2
DTC124ESA	22K	22K

IC 301

PIN NO.	F M	FM RDS TUNED
1	1.2-1.5	4.96V
2	2.1-2.5	1.85V
3	2.48V	2.48V
4	2.47V	2.47V
5	4.96V	4.96V
6	0 V	0 V
7	2.46V	2.46V
8	4.96V	4.96V
9	0 V	0 V
10	0 V	0 V
11	0 V	0 V
12	4.96V	4.96V
13	2.45V	2.45V
14	2.63V	2.63V
15	2.48V	2.48V
16	2.48V	2.48V

SCHEMATIC DIAGRAM
Festival-60-70-80-US(RDS)
CD-UNIT-300-01P (TUNER)

Festival CD Unit TUNER IC VOLTAGE CHART (60/80 European 2 BAND)(RDS)

IC 251

PIN NO.	F M	A M	F M STEREO	F M MONO
1	3.19V	3.19V		
2	3.19V	3.19V		
3	3.22V	3.22V		
4	3.21V	3.21V		
5	5.2V	5.2V		
6	3.2V	3.2V		
7	3.2V	3.2V		
8	5.2V	5.2V		
9	3.19V	3.19V		
10	0 V	8.1V		
11	0 V	0 V		
12	0 V	0 V		
13	4.8V	4.8V		
14	5.0V	0.06V		
15	0.01V	0.1V		
16		2.87V	2.65V	2.85V
17		9.8V	2.8V	7.54V
18		5.3V	2.8V	4.5V
19	2.83V	2.83V	2.8V	3.75V
20		7.5V	2.8V	3.75V
21		1.8V	3.4V	1.8V
22	12.1V	12.1V		

IC 271

PIN NO.	F M	A M	F M STEREO	F M MONO
1	2.5V	2.5V		
2	0.1V	12.1V		
3	0 V	0 V		
4	0 V	0 V		
5	5.0V	5.0V		
6	5.0V	5.0V		
7	0 V	0 V		
8	0 V	0 V		
9	12.1V	0.1V		
10			12V	0.1V
11	5.0V	5.0V		
12	0 V	0 V		
13	5.0V	5.0V		
14	0 V	2.5V		
15	0 V	0 V		
16	5.0V	5.0V		
17	0 V	0 V		
18	0 V	0 V		
19				
20				
21				
22				
23	0 V	0 V		
24	5.0V	5.0V		

PIN NO.	LOW FREQ. - HIGH FREQ.
	FM 0.19V-0.16V
19	AM 0.12V-0.09V
	FM 1.03V-0.83V
20	AM 1.05V-0.83V
	FM 1.03V-0.81V
21	AM 1.05V-0.83V
	FM 1.58V-8.1V
22	AM 1.0V-7.52V

IC 231

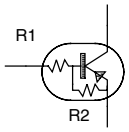
PIN NO.	F M	A M
1	2.54V	1.02V
2	2.54V	1.02V
3	2.54V	1.02V
4	0 V	0 V
5	11.5V	11.6V
6	11.5V	11.6V
7	11.5V	11.6V
8	4.86V	4.86V
9	11.4V	3.85V
10	2.1V	2.07V
11	1.8V	1.3V
12	3.0V	3.2V
13	10.3V	10.3V
14	1.5V	1.48V
15	1.49V	1.49V
16	0.5V	0 V
17	0 V	0 V
18	2.5V	1.05V
19	1.5V	1.4V
20	0 V	11.46V
21	4.0V	3.7V
22	4.0V	3.7V
23	4.0V	3.7V
24	3.2V	2.3V

IC 302

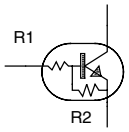
PIN NO.	F M	FM RDS TUNED
1	2.27V	2.27V
2	0 V	0 V
3	0 V	0 V
4	4.49V	4.49V
5	2.48V	2.48V
6	2.4-2.6	1.85V
7	4.96V	4.96V
8	0 V	0 V
9	4.96V	4.96V
10	0 V	0 V
11	0 V	0 V
12	0 V	0 V
13	0 V	0 V
14	4.71V	3.6V
15	4.71V	3.0V
16	4.71V	4.63V
17	0 V	0 V
18	2.6V	2.6V

IC 301

PIN NO.	F M	FM RDS TUNED
1	1.2-1.5	4.96V
2	2.1-2.5	1.85V
3	2.48V	2.48V
4	2.47V	2.47V
5	4.96V	4.96V
6	0 V	0 V
7	2.46V	2.46V
8	4.96V	4.96V
9	0 V	0 V
10	0 V	0 V
11	0 V	0 V
12	4.96V	4.96V
13	2.45V	2.45V
14	2.63V	2.63V
15	2.48V	2.48V
16	2.48V	2.48V



Type	R1	R2
DTA143ESA	4.7K	4.7K
DTA124ESA	22K	22K



Type	R1	R2
DTC124ESA	22K	22K
DTC143ESA	4.7K	4.7K

SCHEMATIC DIAGRAM
Festival-60-70-80-EU(2BAND)(RDS)
CD-UNIT-300-01P (TUNER)

Festival MAIN AMP PCB SCHEMATIC DIAGRAM (60 US & European)

Main Amp PCB
4551H010013

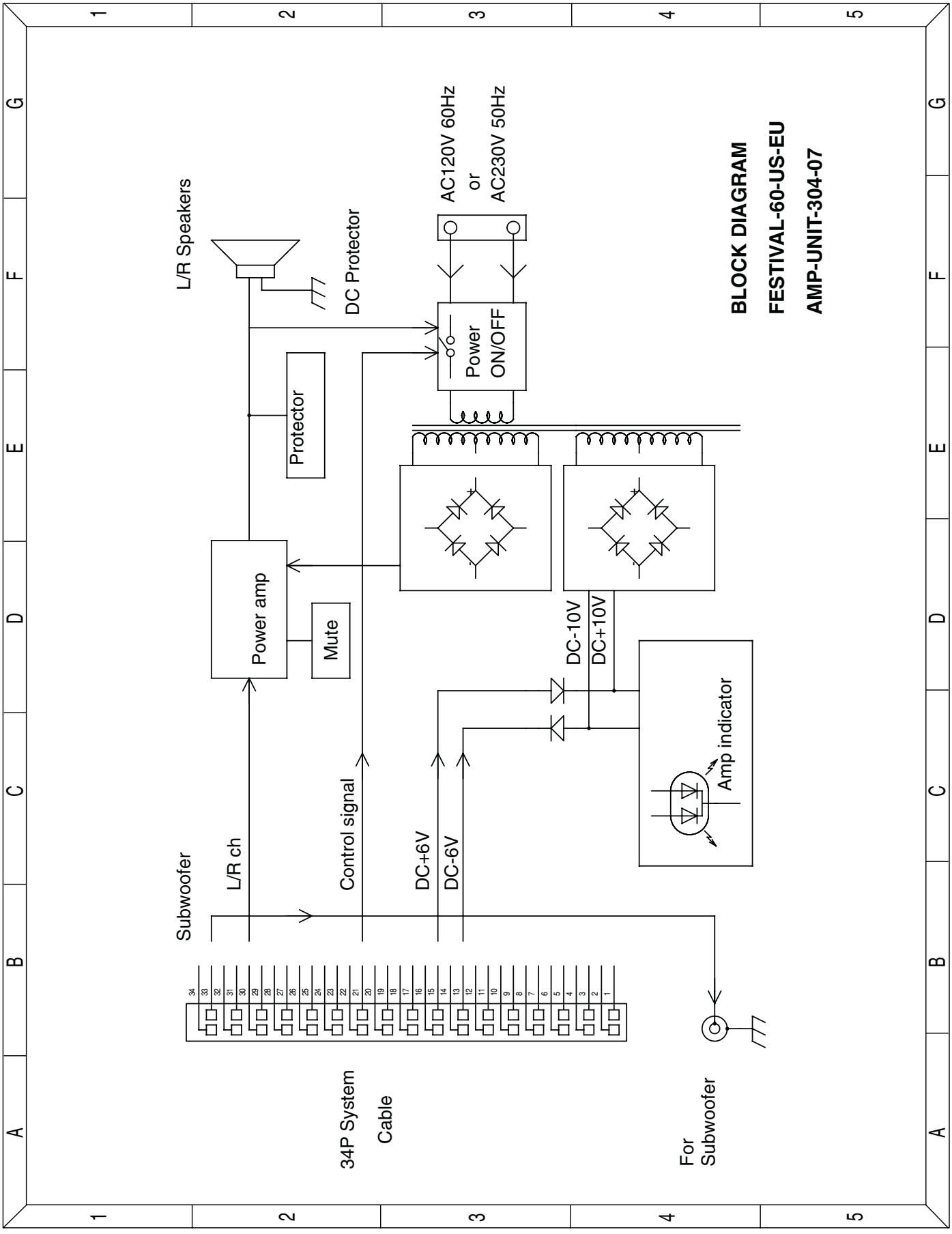
FESTIVAL-60-70-US-EU
Amp unit-300-01M

Secondary PCB
4551H010016

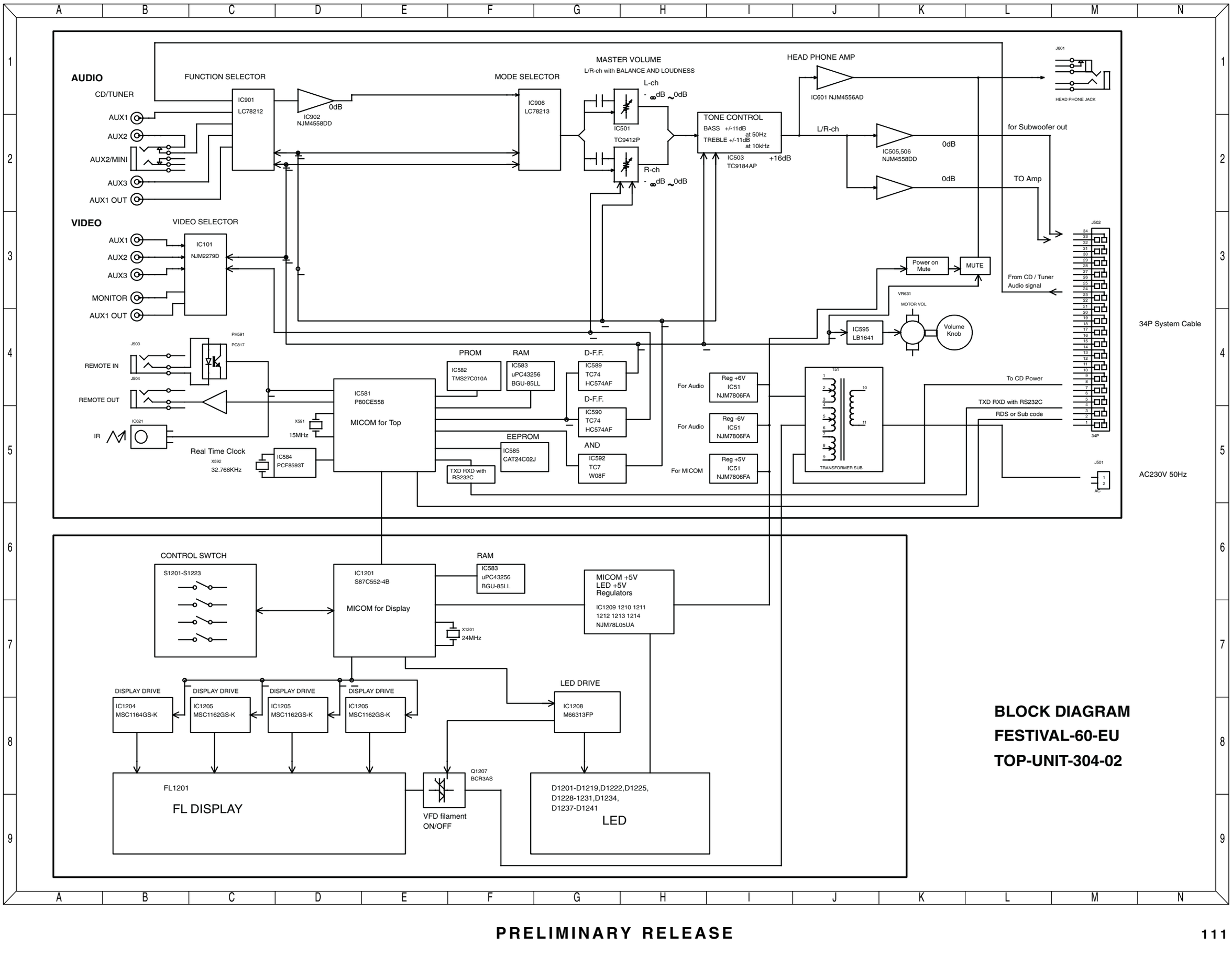
Primary PCB
4551H010015

Amp indicator PCB 4551H010014

Festival AMP UNIT BLOCK DIAGRAM (60 US & European)

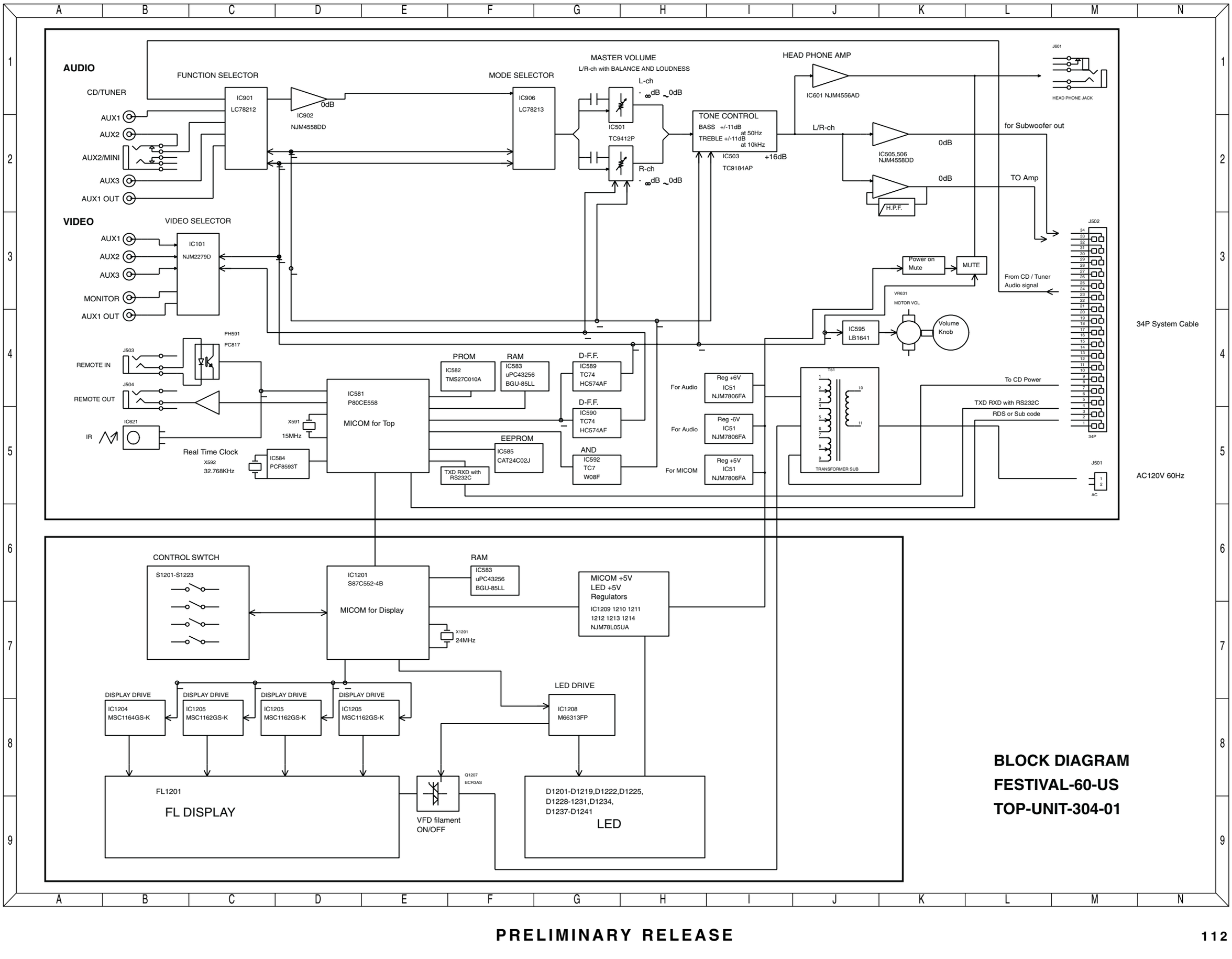


Festival TOP UNIT BLOCK DIAGRAM (60 European)

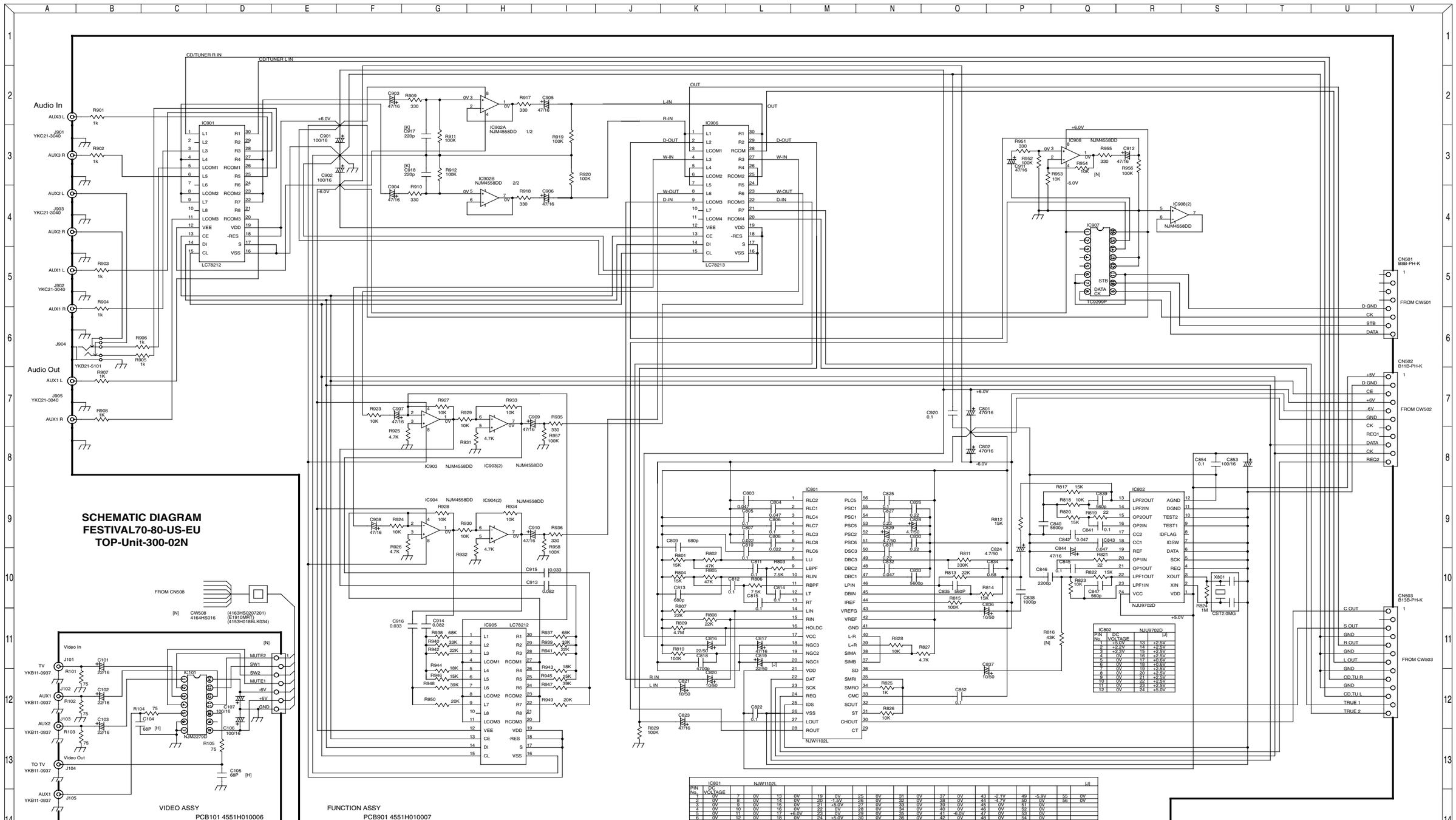


BLOCK DIAGRAM
FESTIVAL-60-EU
TOP-UNIT-304-02

Festival TOP UNIT BLOCK DIAGRAM (60 US)



Festival TOP UNIT SCHEMATIC DIAGRAM (60 US & European)



Festival SUBWOOFER SCHEMATIC DIAGRAM (80 European)

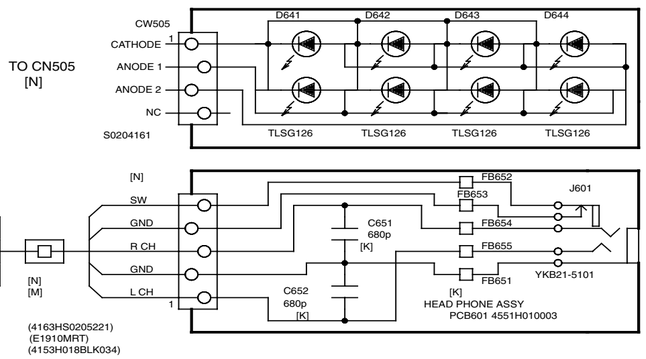
FESTIVAL-80-EU

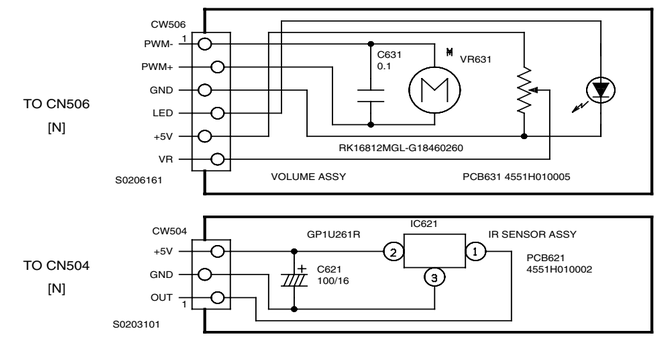
SUBWOOFER-300-06P

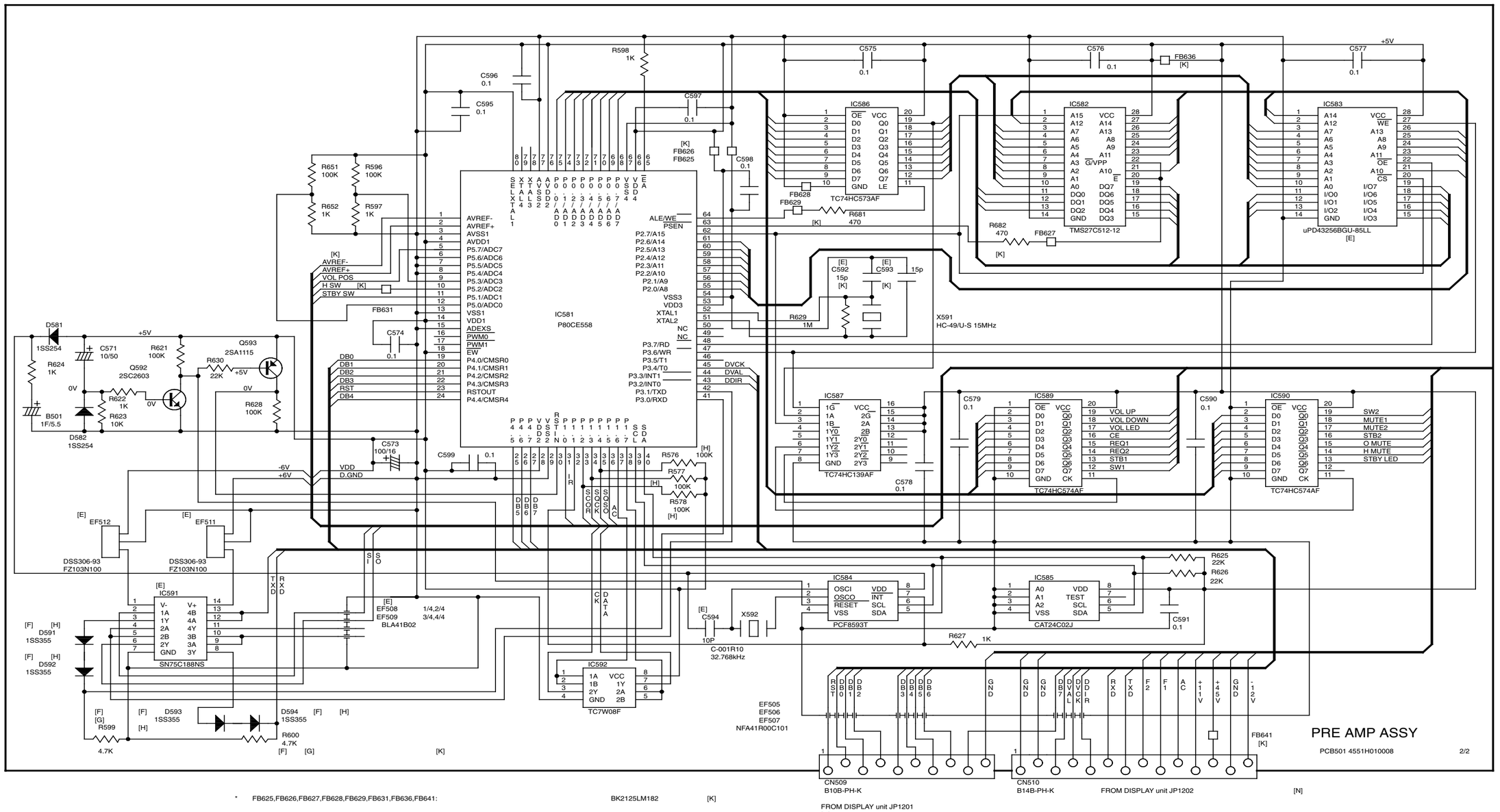
THIS SAYS 80 BUT THE FILE WAS NAMED 60.
CAN YOU DETERMINE WHICH IS CORRECT

Festival TOP UNIT SCHEMATIC DIAGRAM (60 US & European)

SCHEMATIC DIAGRAM
FESTIVAL-60-US-EU
TOP-Unit-300-04N

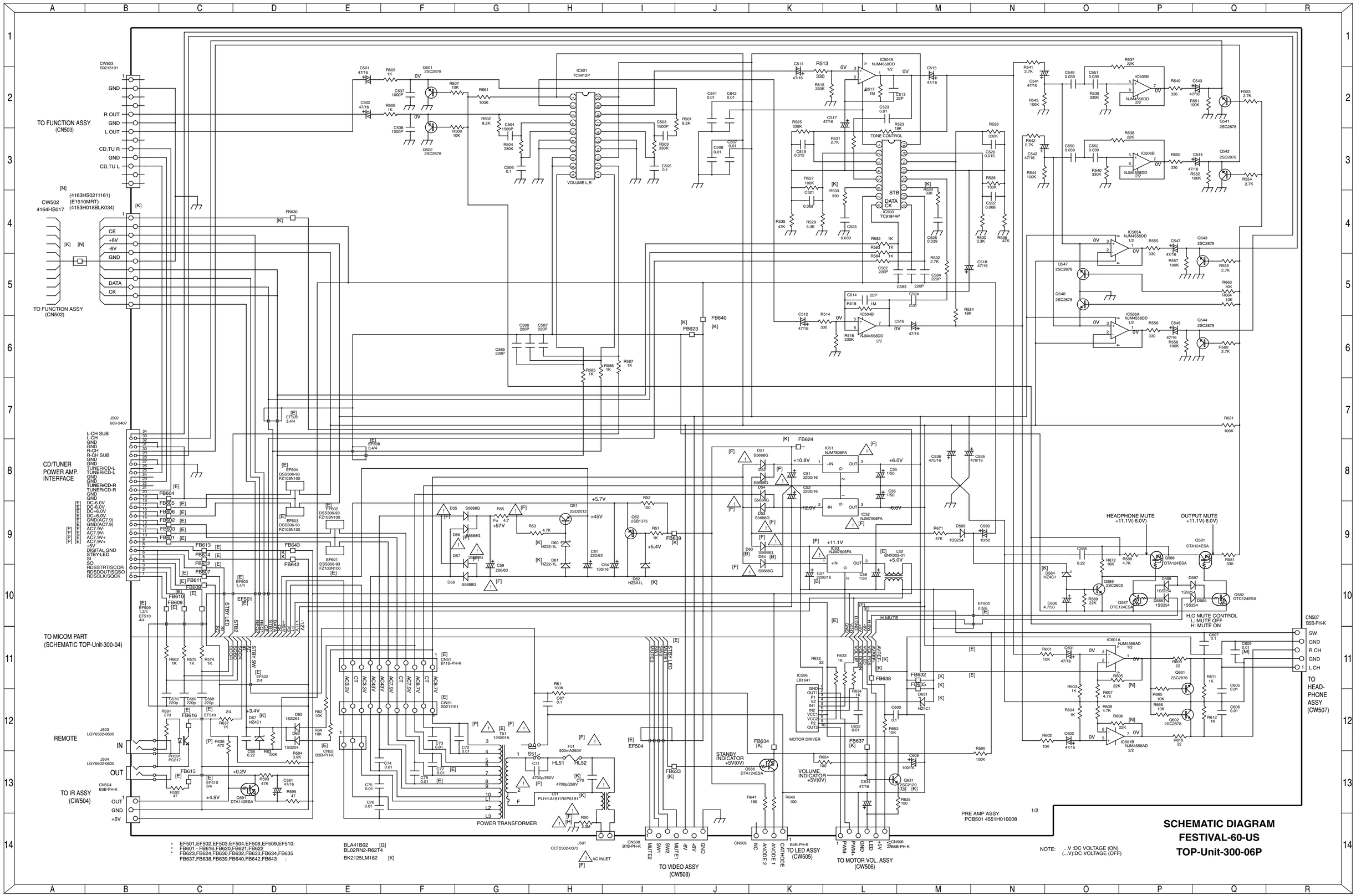




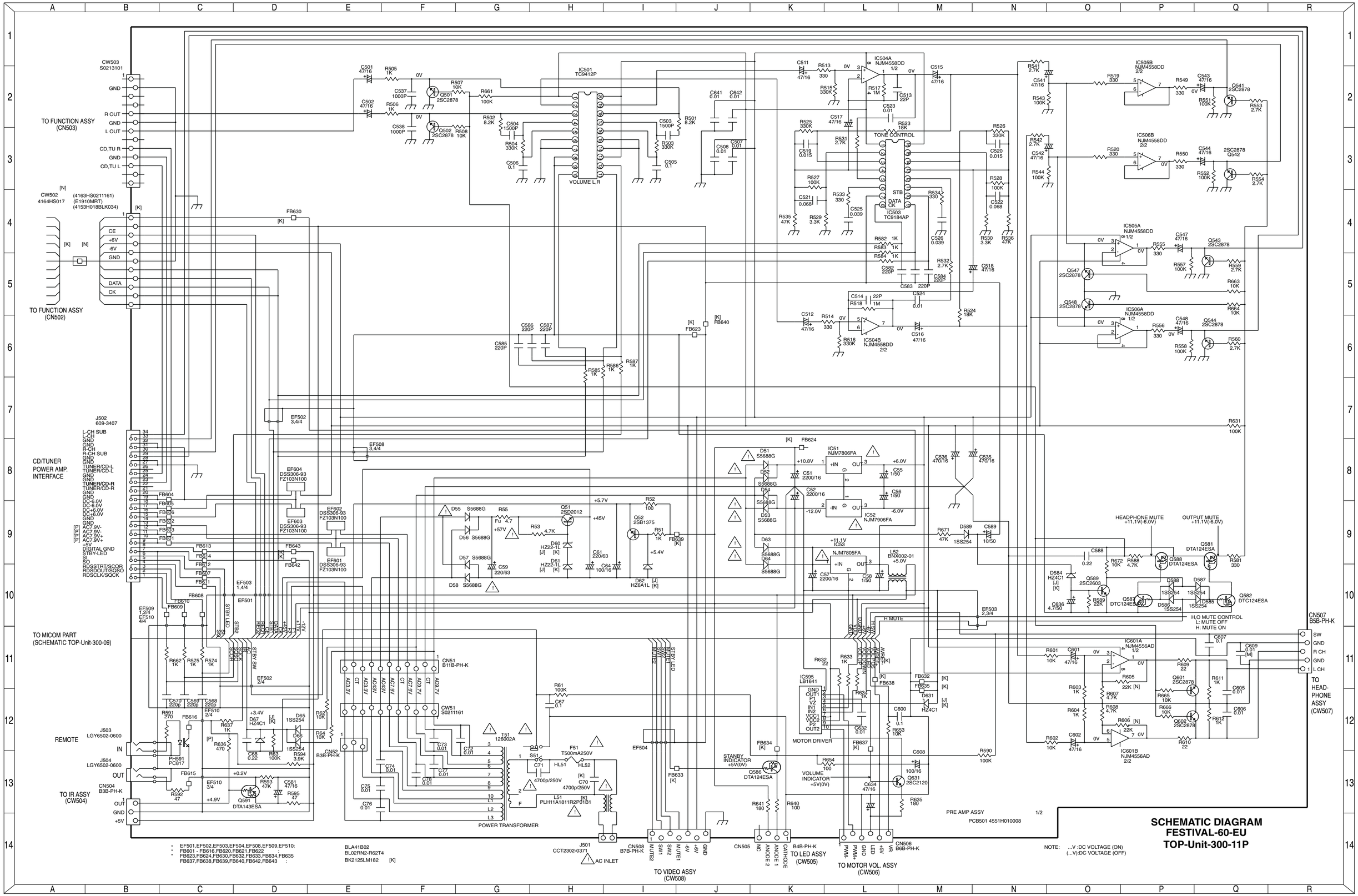


* FB625,FB626,FB627,FB628,FB629,FB631,FB636,FB641: BK2125LM182 [K]

Festival TOP UNIT SCHEMATIC DIAGRAM (60 US)



Festival TOP UNIT SCHEMATIC DIAGRAM (60 European)



Festival TOP UNIT BLOCK DIAGRAM (80 European)

AUDIO

CD/TUNER

AUX1

AUX2

AUX2/MINI

AUX3

AUX1 OUT

FUNCTION SELECTOR

IC901
LC78212

0dB

IC902
NJM4558DD

THROUGH OR WRAP

MODE SELECTOR

IC906
LC78213

MASTER VOLUME
L/R-ch with BALANCE AND LOUDNESS

L-ch
- ∞dB ~0dB

IC501
TC9412P

R-ch
- ∞dB ~0dB

HEAD PHONE AMP

IC601 NJM4556AD

J601

HEAD PHONE JACK

TONE CONTROL
BASS +/-11dB
at 50Hz
TREBLE +/-11dB
at 10khz

IC503 +16dB
TC9184AP

L/R-ch

IC505,506
NJM4558DD

0dB

0dB

J506

8P DIN CONNECTOR

8P DIN Cable

IC905
LC78212

WRAP
CIRCUIT

IC801 NJW1102L
IC802 NJU9702D

DOLBY
PRO
LOGIC

DOLBY PRO.
LEVEL TRIM +/-6dB

R-ch

-12dB to 0dB

+6dB

IC907
TC9299P

IC908
NJM4558DD

BASS BOOST ON
+4dB at 50Hz

C-ch

+23dB

IC502
TC9413P

C-ch
-∞dB ~-4dB
Center Boost
+4dB

DOLBY PRO.
C-ch -9dB to 3dB

DOLBY PRO.
S-ch -9dB to 3dB

IC507
NJM4558DD

S-ch

+19dB

S-ch
- ∞dB ~0dB

J502

34P

34P System Cable

From CD / Tuner
Audio signal

Power on
Mute

MUTE

VR631
MOTOR VOL

Volume
Knob

IC595
LB1641

VIDEO

AUX1

AUX2

AUX3

MONITOR

AUX1 OUT

VIDEO SELECTOR

IC101
NJM2279D

PH591
PC817

J503

REMOTE IN

J504

REMOTE OUT

IR

IC621

IC581
P80CE558

MICOM for Top

X591
15MHz

Real Time Clock
X592
32.768KHz

IC584
PCF8593T

PROM

IC582
TMS27C010A

RAM

IC583
uPC43256
BGU-85LL

EEPROM

IC585
CAT24C02J

TXD RXD with
RS232C

D-F.F.

IC589
TC74
HC574AF

D-F.F.

IC590
TC74
HC574AF

AND

IC592
TC7
W08F

For Audio

Reg +6V
IC51
NJM7806FA

For Audio

Reg -6V
IC51
NJM7806FA

For MICOM

Reg +5V
IC51
NJM7806FA

TS1

TRANSFORMER SUB

To CD Power

TXD RXD with RS232C

RDS or Sub code

J501

AC

AC230V 50Hz

CONTROL SWTCH

S1201-S1223

IC1201
S87C552-4B

MICOM for Display

X1201
24MHz

RAM

IC583
uPC43256
BGU-85LL

MICOM +5V
LED +5V
Regulators

IC1209 1210 1211
1212 1213 1214
NJM78L05UA

DISPLAY DRIVE

IC1204
MSC1164GS-K

DISPLAY DRIVE

IC1205
MSC1162GS-K

DISPLAY DRIVE

IC1205
MSC1162GS-K

DISPLAY DRIVE

IC1205
MSC1162GS-K

LED DRIVE

IC1208
M66313FP

FL1201

FL DISPLAY

Q1207
BCR3AS

VFD filament
ON/OFF

D1201-D1219,D1222,D1225,
D1228-1231,D1234,
D1237-D1241

LED

BLOCK DIAGRAM
FESTIVAL-70-80-EU
TOP-UNIT-304-03

Festival TOP UNIT SCHEMATIC DIAGRAM (80 US & European)

SCHEMATIC DIAGRAM
FESTIVAL70-80-US-EU
TOP-Unit-300-02N

VIDEO ASSY
PCB101 4551H010006

FUNCTION ASSY
PCB901 4551H010007

Festival TOP UNIT SCHEMATIC DIAGRAM (80 US & European)

SCHEMATIC DIAGRAM
FESTIVAL-70-80-US-EU
TOP-Unit-300-09N

CW505 — CATHODE, ANODE 1, ANODE 2, NC — S0204161 — TO CN505 [N] — D641 D642 D643 D644 — TLSG126 ×4

POWER INDICATOR ASSY
PCB641 4551H010004

CW506 — PWM-, PWM+, GND, LED, +5V, VR — S0206161 — TO CN506 [N] — C631 0.1, VR631, RK16812MGL-G18460260

VOLUME ASSY PCB631 4551H010005

CW504 — +5V, GND, OUT — S0203101 — TO CN504 [N] — GP1U261R, IC621, C621 100/16

IR SENSOR ASSY
PCB621
4551H010002

TO CN507 — [M] [N] — CW507 4164HS013 — (4163HS0205221) (E1910MRT) (4153H018BLK034)

[N] SW, GND, R CH, GND, L CH — FB652 FB653 FB654 FB655 FB651 — J601 YKB21-5101 — C651 680p [K] — C652 680p [K]

HEAD PHONE ASSY
PCB601 4551H010003

MODEL	R651	R652	R596	R597
-60-US-EU	YES	YES	YES	YES
-70 -EU	YES	NO	YES	NO
-80-US-EU	YES	YES	YES	NO

DOLBY PRO LOGIC CENTER MODE — USER SEL. — WIDE — R651 100K — R652 1K

DOLBY PRO LOGIC — YES — NO — R596 100K — R597 1K

IC581 P80CE558

IC582 TMS27C010A — IC583 uPD43256BGU-85LL [E] — IC586 TC74HC573AF — IC587 TC74HC139AF — IC589 TC74HC574AF — IC590 TC74HC574AF

IC584 PCF85931 — IC585 CA124C02J — IC591 SN75C188NS — IC592 TC7W08F

X591 HC-49/U-S15MHz — X592 C-001R10 32.768kHz

EF505 EF506 EF507 NFA41R00C101

D581 1SS254 — D582 1SS254 — D591 1SS355 — D592 1SS355 — D593 1SS355 — D594 1SS355

Q592 2SC2603 — Q593 2SA1115

EF512 DSS306-93 FZ103N100 — EF511 DSS306-93 FZ103N100

EF508 EF509 BLA41B02 1/4,2/4 3/4,4/4

B501 1F/5.5

FROM PRE. AMP.PART
(SCHEMATIC TOP-Unit-300-03,06)

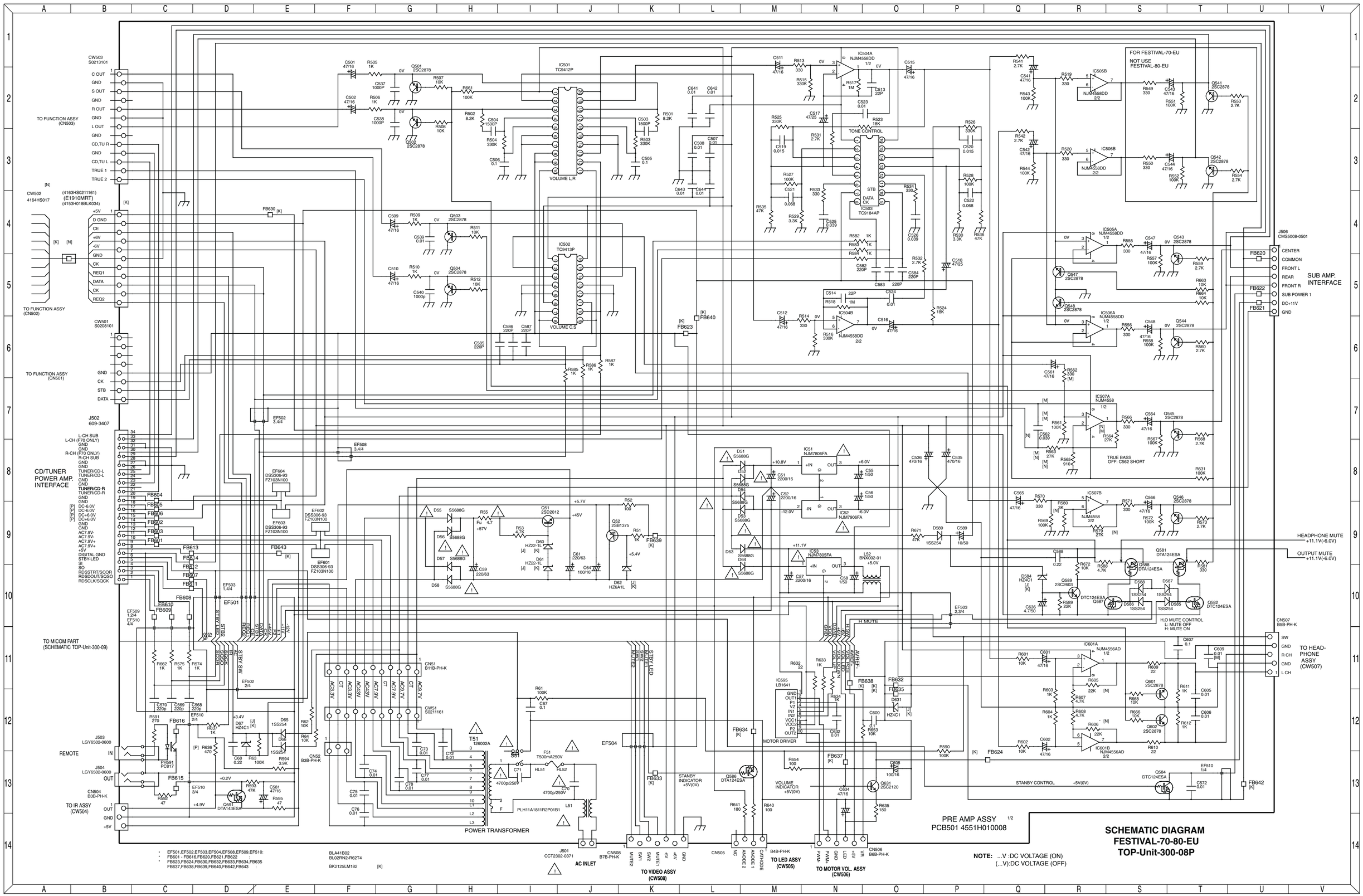
PRE AMP ASSY
PCB501 4551H010008 2/2

* FB625,FB626,FB627,FB628,FB629,FB631,FB636,FB641: BK2125LM182 [K]

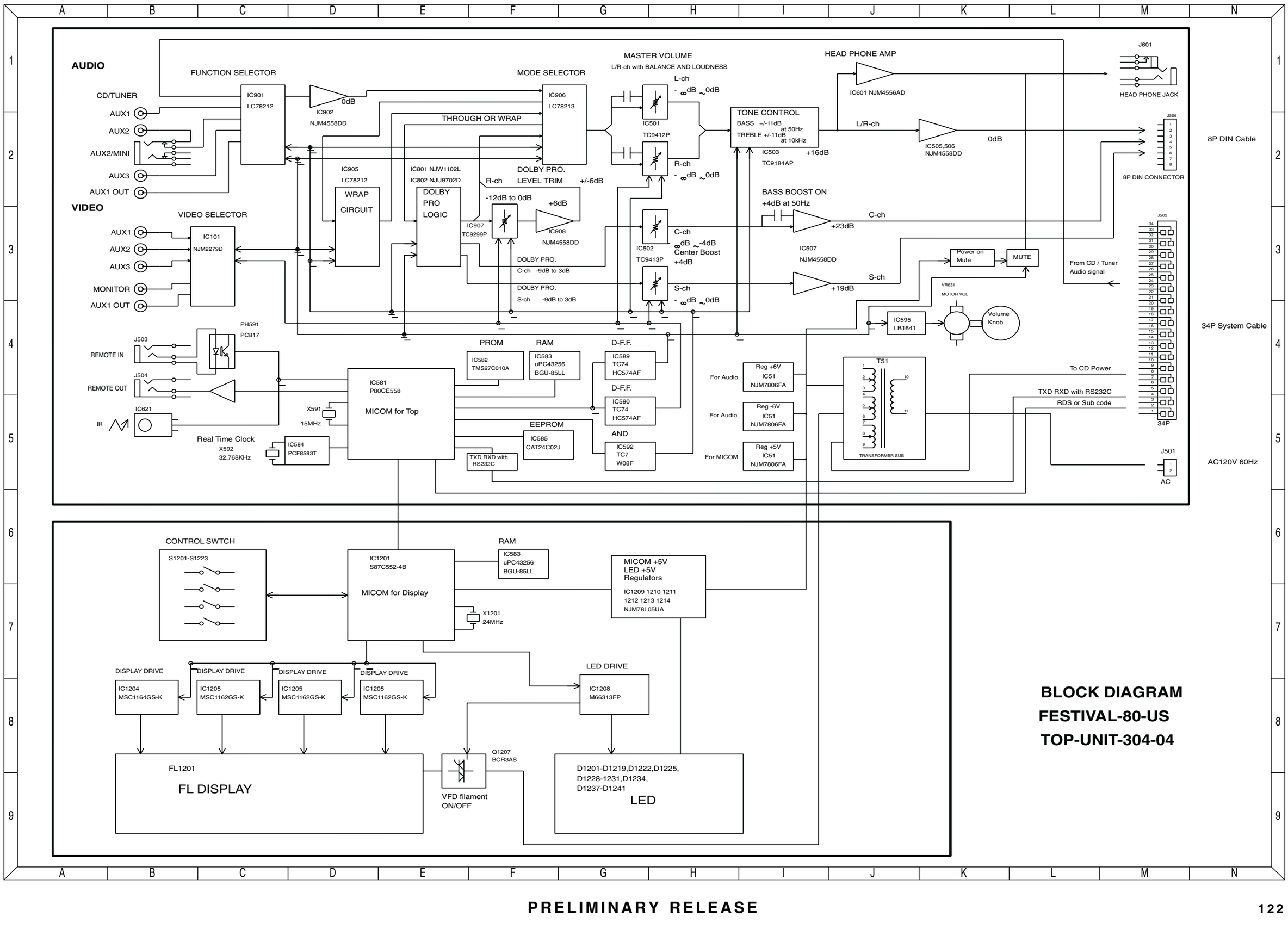
CN509 B10B-PH-K — FROM DISPLAY unit JP1201 [N]

CN510 B14B-PH-K — FROM DISPLAY unit JP1202 [N]

Festival TOP UNIT SCHEMATIC DIAGRAM (80 European)

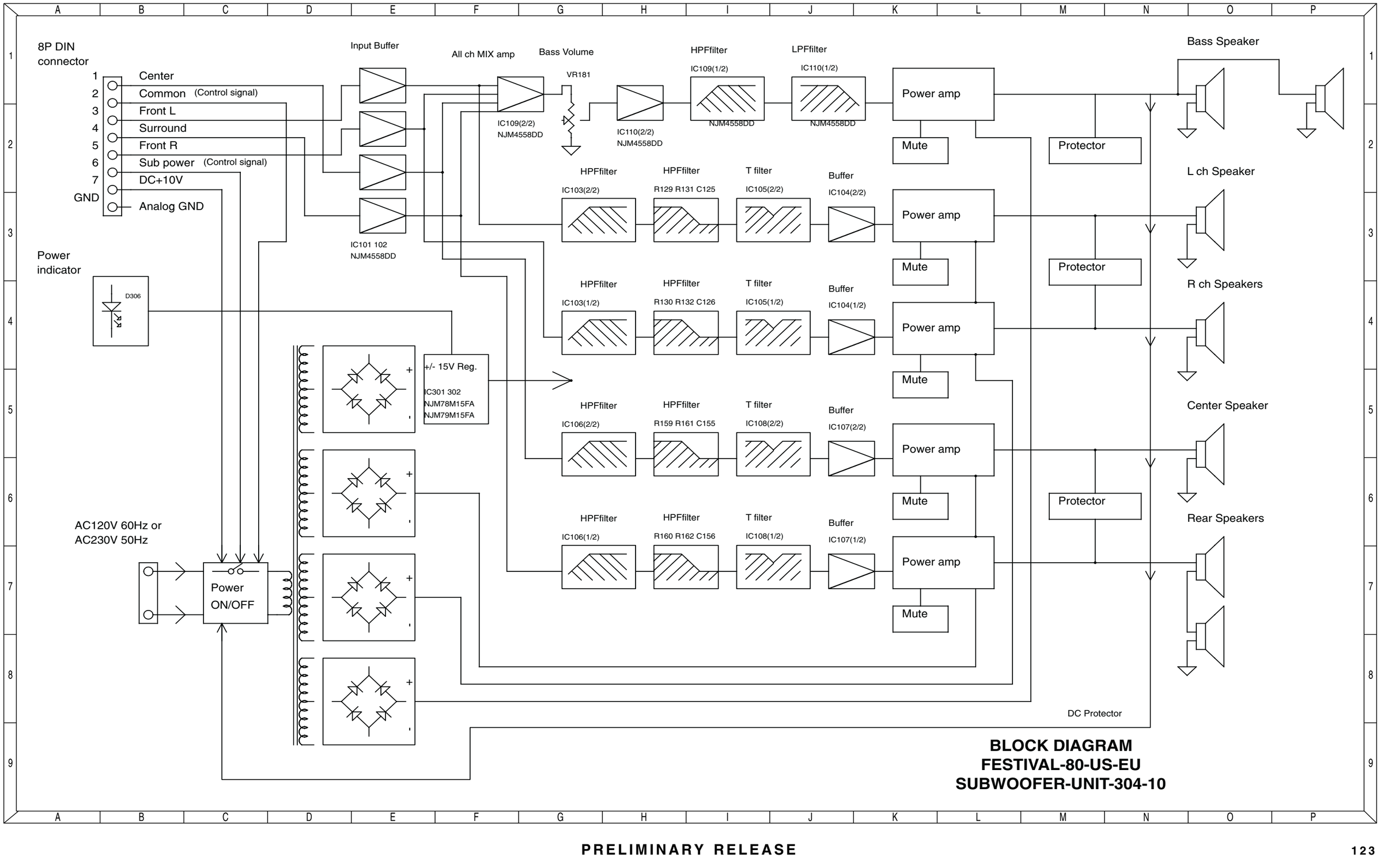


Festival TOP UNIT BLOCK DIAGRAM (80 US)



BLOCK DIAGRAM
FESTIVAL-80-US
TOP-UNIT-304-04

Festival SUBWOOFER UNIT BLOCK DIAGRAM (80 US & European)



Festival SUBWOOFER SCHEMATIC DIAGRAM (80 US)

SUBWOOFER-100W

2SC1775(F) 2SC1775(F) 2SA970(BL) 2SA970(BL) 2SB646A(C) 2SD667A(C) 2SA1930 2SC5198(O) 2SC5198(O)

R405 1.5K R406 1.5K R410 560 R416 100 C407 470/50V

Q406 Q407 Q408

C424 0.1

C404 7P C423 7P C428 100P R421 2.2K

R401 330 C401 47/35V Q401 Q402 R450 33k

R402 33k C402 68P R403 220 R404 220 R412 1.2K C405 470/6.3V

R417 15K R422 2.2K Q410

C406 100P R423 2.7K R424 1.5K Q411

R418 15K VR401 1KB

Q405 2SK246(GR) D401 1SS254 Q403 2SC1775(F)

R409 560 C403 1000P Q404 R408 270

2SC2603(F)

R414 560 R413 560 R415 560 R419 100 R425 10 C408 470/50V

2SD666A(C)

R426 47 C409 10/50V R427 47 Q413 Q415

R429 15 R433 100 C410 10/50V R430 15 R431 100 R434 2.2

Q412 Q414 R435 4.7 R436 4.7 Q416 Q418

R439 0.22 3W R441 0.22 3W R443 1.5K

R440 0.22 3W R442 0.22 3W R437 4.7 R438 4.7 Q417 Q419

2SB647A(C) 2SC5171 2SA1941(O)

-39V

2SA1941(O)

C411 0.068 R445 1.5K R444 1.5K Q420

R446 3.3K R465 3.3K

Q421 R447 4.7K C412 10uF/50V R448 22K R466 10

2SC2240(BL) 2SA970(BL)

C419 10000/50V C420 10000/50V

D405 D3SB20 C421 0.1 C422 0.1

HL403 F401 T6.3A 250V HL401

HL404 F402 T6.3A 250V HL402

CN401 B3P-VH
1 AC 28.8V
2 GND
3 AC 28.8V

CW401 4164HS003
1 - SP R side
2 - SP L side
3 + SP R side
4 + SP L side

R449 15 2W C413 0.1 C414 0.1

TM401 MET37-0001

R467 10

CW402 4164HS002
1 GND
2 SUBFIL OUT
3 DC PROTECT

R464 220K C425 0.1

R463 2.2K R462 33K R461 68K R459 4.7K C417 100/16V R456 100K C416 1/50V R455 2.2K R454 2.2K

Q425 2SC2603(F) Q424 C418 1/50V R458 4.7K R460 3.3M Q423 Q422 R457 4.7K D404 HZ6A1L C415 10/50V R453 10K

2SA1115(F) 2SA1115(F) 2SC2603(F)

D402 1SS254 R451 680 D403 1SS254 R452 680

Bass amp PCB

4551H010022

FESTIVAL-80-US

SUBWOOFER-300-02P

Festival SUBWOOFER SCHEMATIC DIAGRAM (80 European)

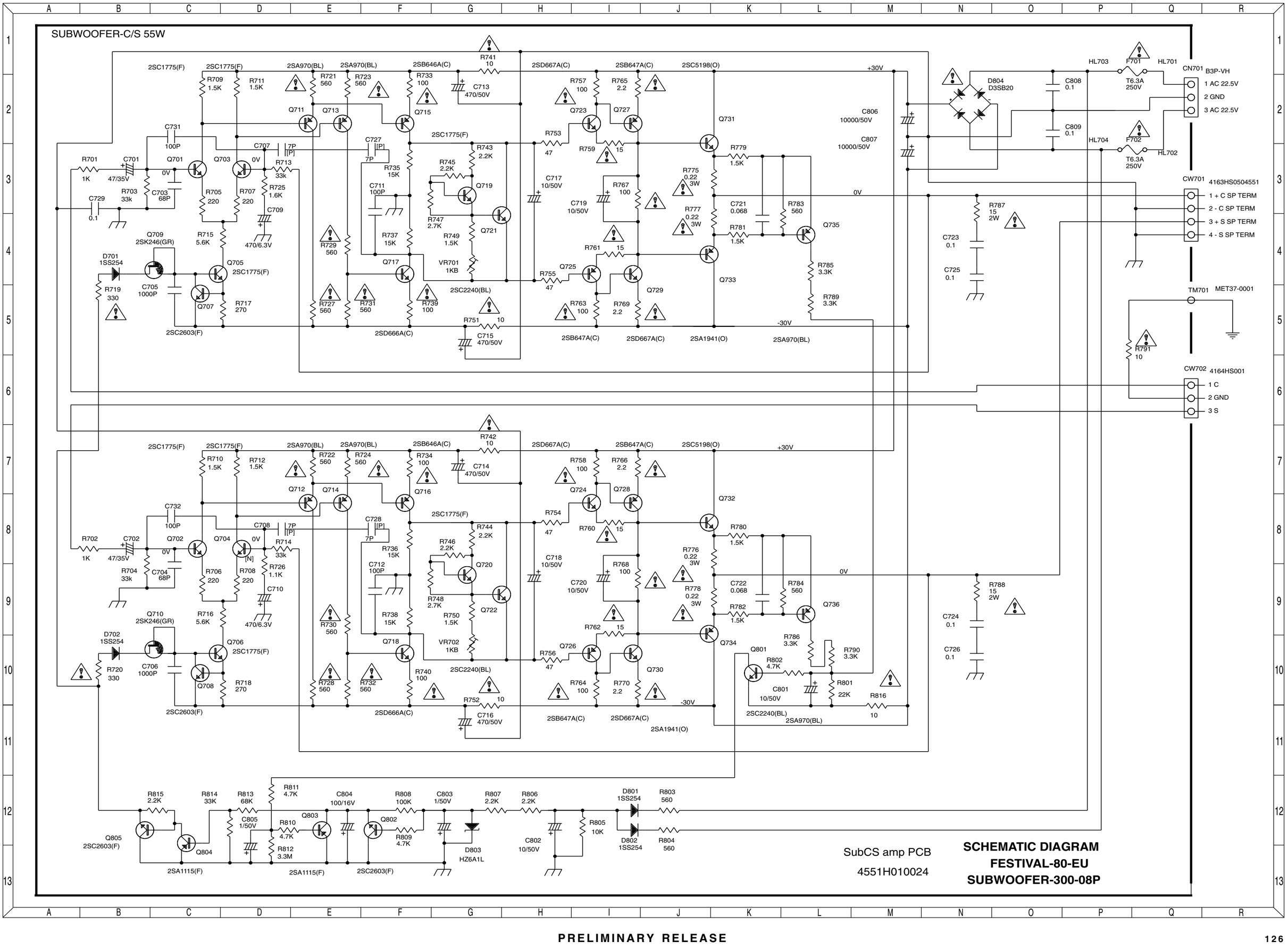
SUBWOOFER-C/S 55W

SubCS amp PCB

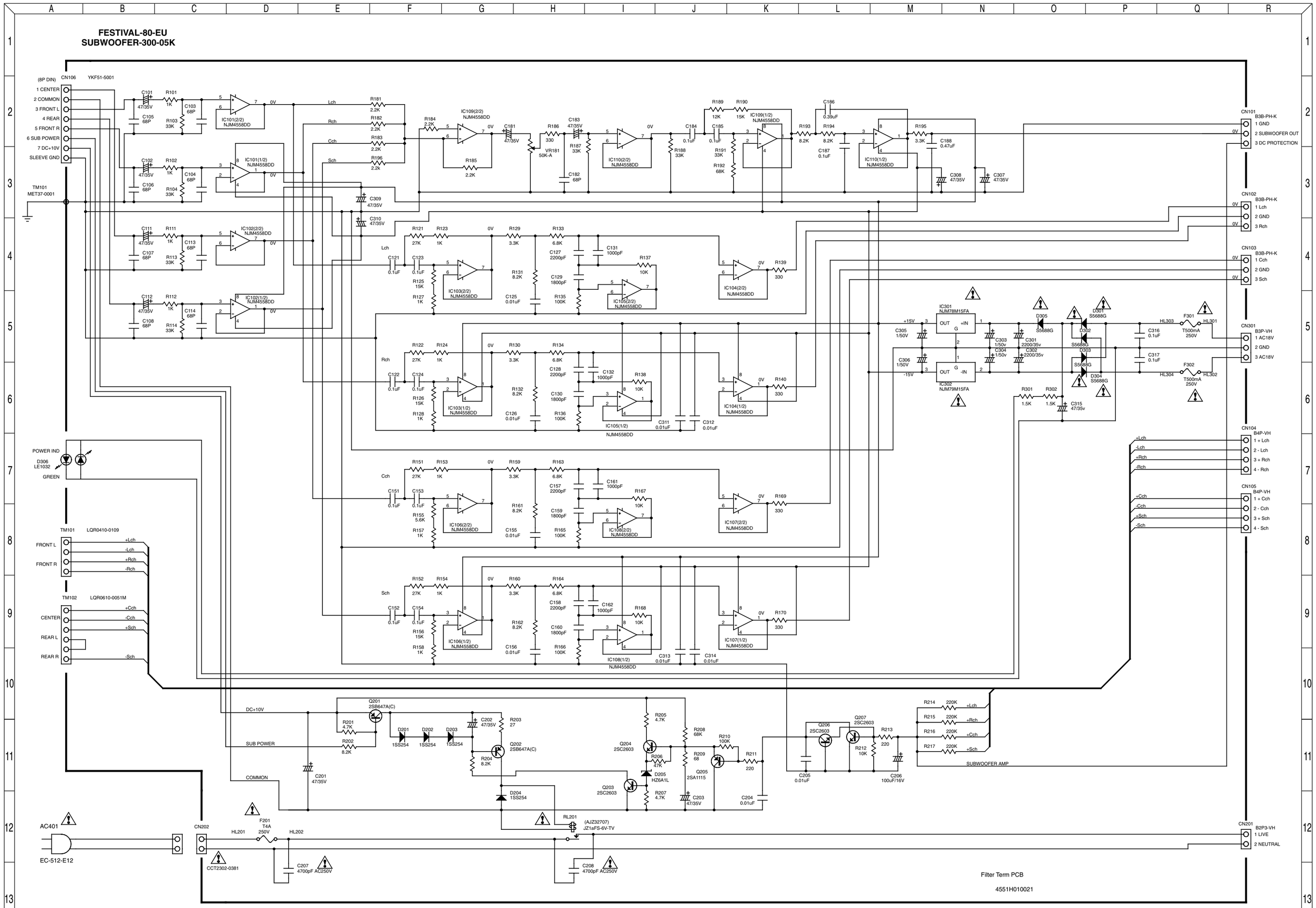
4551H010024

SCHEMATIC DIAGRAM
FESTIVAL-80-EU
SUBWOOFER-300-08P

Festival SUBWOOFER SCHEMATIC DIAGRAM (80 European)



Festival SUBWOOFER SCHEMATIC DIAGRAM (80 European)



Festival SUBWOOFER SCHEMATIC DIAGRAM (80 US)

FESTIVAL-80-US
SUBWOOFER-300-01P

CN106 YKF51-5001 (8P DIN)
1 CENTER
2 COMMON
3 FRONT L
4 REAR
5 FRONT R
6 SUB POWER
7 DC+10V
SLEEVE GND

TM101 MET37-0001

IC101(2/2) NJM4558DD
IC101(1/2) NJM4558DD
IC102(2/2) NJM4558DD
IC102(1/2) NJM4558DD
IC103(2/2) NJM4558DD
IC103(1/2) NJM4558DD
IC104(2/2) NJM4558DD
IC104(1/2) NJM4558DD
IC105(2/2) NJM4558DD
IC105(1/2) NJM4558DD
IC106(2/2) NJM4558DD
IC106(1/2) NJM4558DD
IC107(2/2) NJM4558DD
IC107(1/2) NJM4558DD
IC108(2/2) NJM4558DD
IC108(1/2) NJM4558DD
IC109(2/2) NJM4558DD
IC109(1/2) NJM4558DD
IC110(2/2) NJM4558DD
IC110(1/2) NJM4558DD

IC301 NJM78M15FA
IC302 NJM79M15FA

VR181 50K-A

POWER IND
D306 LE1032 GREEN

TM101 LQR0410-0109
FRONT L
FRONT R
+Lch
-Lch
+Rch
-Rch

TM102 LQR0610-0051M
CENTER
REAR L
REAR R
+Cch
-Cch
+Sch
-Sch

AC1
UC-714-J01
CN202
CCT2302-0382
F201 8A
RL201 (AJZ32707) JZ1aFS-6V-TV
C207 4700pF AC250V
C208 4700pF AC250V

DC+10V
SUB POWER
COMMON

Q201 2SB647A(C)
Q202 2SB647A(C)
Q203 2SC2603
Q204 2SC2603
Q205 2SA1115
Q206 2SC2603
Q207 2SC2603
D201 1SS254
D202 1SS254
D203 1SS254
D204 1SS254
D205 HZ6A1L
D301 S5688G
D302 S5688G
D303 S5688G
D304 S5688G
D305 S5688G

SUBWOOFER AMP

CN101 B3B-PH-K
1 SUBWOOFER OUT [G]
2 GND [G]
3 DC PROTECTION

CN102 B3B-PH-K
1 Lch
2 GND
3 Rch

CN103 B3B-PH-K
1 Cch
2 GND
3 Sch

CN301 B3P-VH
1 AC18V
2 GND
3 AC18V

CN104 B4P-VH
1 + Lch
2 - Lch
3 + Rch
4 - Rch

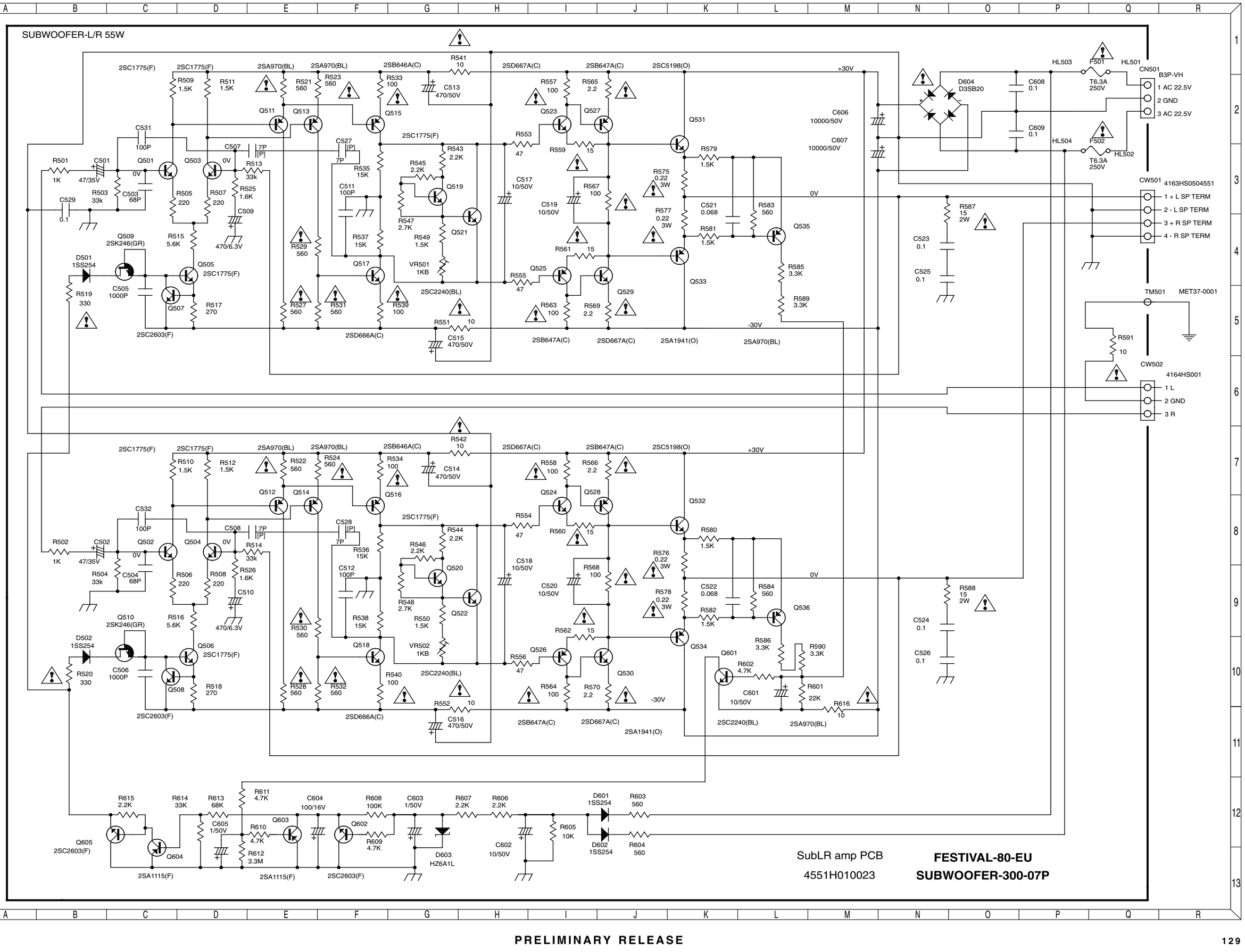
CN105 B4P-VH
1 + Cch
2 - Cch
3 + Sch
4 - Sch

CN201 B2P3-VH
1 LIVE [B]
2 NEUTRAL [B]

Filter Term PCB
4551H010021

Festival SUBWOOFER SCHEMATIC DIAGRAM (80 European)

SUBWOOFER-L/R 55W



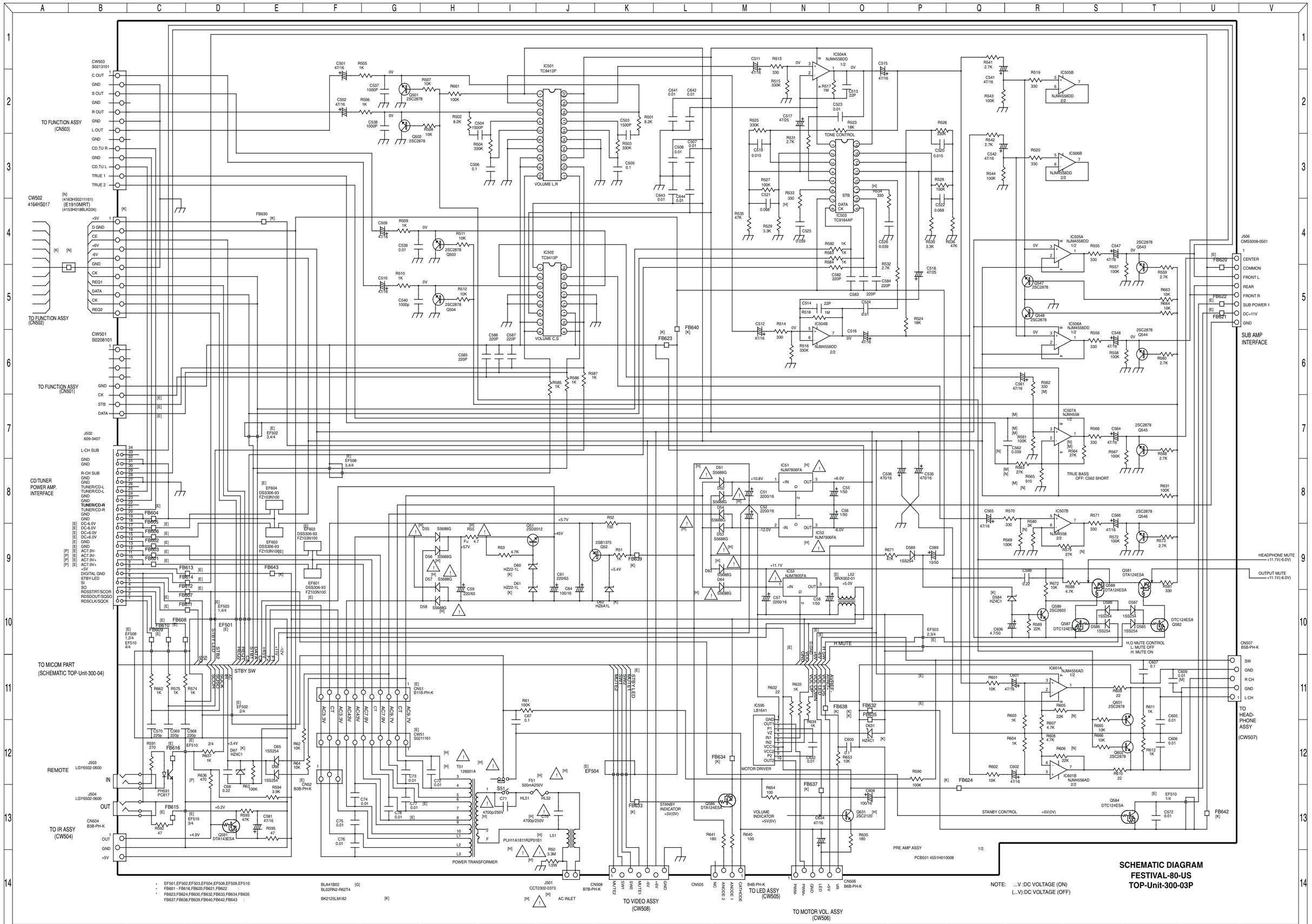
Festival SUBWOOFER SCHEMATIC DIAGRAM (80 US)

SUBWOOFER-L/R 55W

SubLR amp PCB
4551H010023

FESTIVAL-80-US
SUBWOOFER-300-03P

Festival TOP UNIT SCHEMATIC DIAGRAM (80 US)



FESTIVAL 40

Controller / Tuner
3-Disc CD Changer
Power Amplifiers

PRELIMINARY

Service – Technical Manual

Harman International SNC – Harman Consumer International 2, route de Tours 72500 Château du Loir FRANCE

Technical Specifications

Controller / Tuner

FM Tuner	
Usable Sensitivity, Stereo, A-weighted, IHF	12.8 dBf (1.2 µV/75 Ω)
50 dB Quieting Sensitivity, Stereo, A-weighted, IHF	41.2 dBf (32 µV/75 Ω)
Signal/Noise Ratio, 65 dBf, Mono/Stereo, A-weighted, IHF	70/65 dB
Capture Ratio	1.5 dB
Adjacent Channel Selectivity, ±300 kHz	65 dB
IF Rejection	80 dB
Total Harmonic Distortion, 1 kHz, Stereo, 75 kHz mod., 65 dBf	0.3%
AM Tuner	
Sensitivity	500 µV/m
Alternative Channel Selectivity, ±9 kHz	25 dB
Image Rejection	35 dB
IF Rejection	52 dB
Controller	
Input Sensitivity/Impedance	250 mV/ 100 kΩ
Tone Control Range, Bass 100 Hz/Treble 10 kHz	±10 dB
Dimensions (W x D x H)*	280 x 370 x 140 mm
Weight	3 kg

3-Disc CD Changer

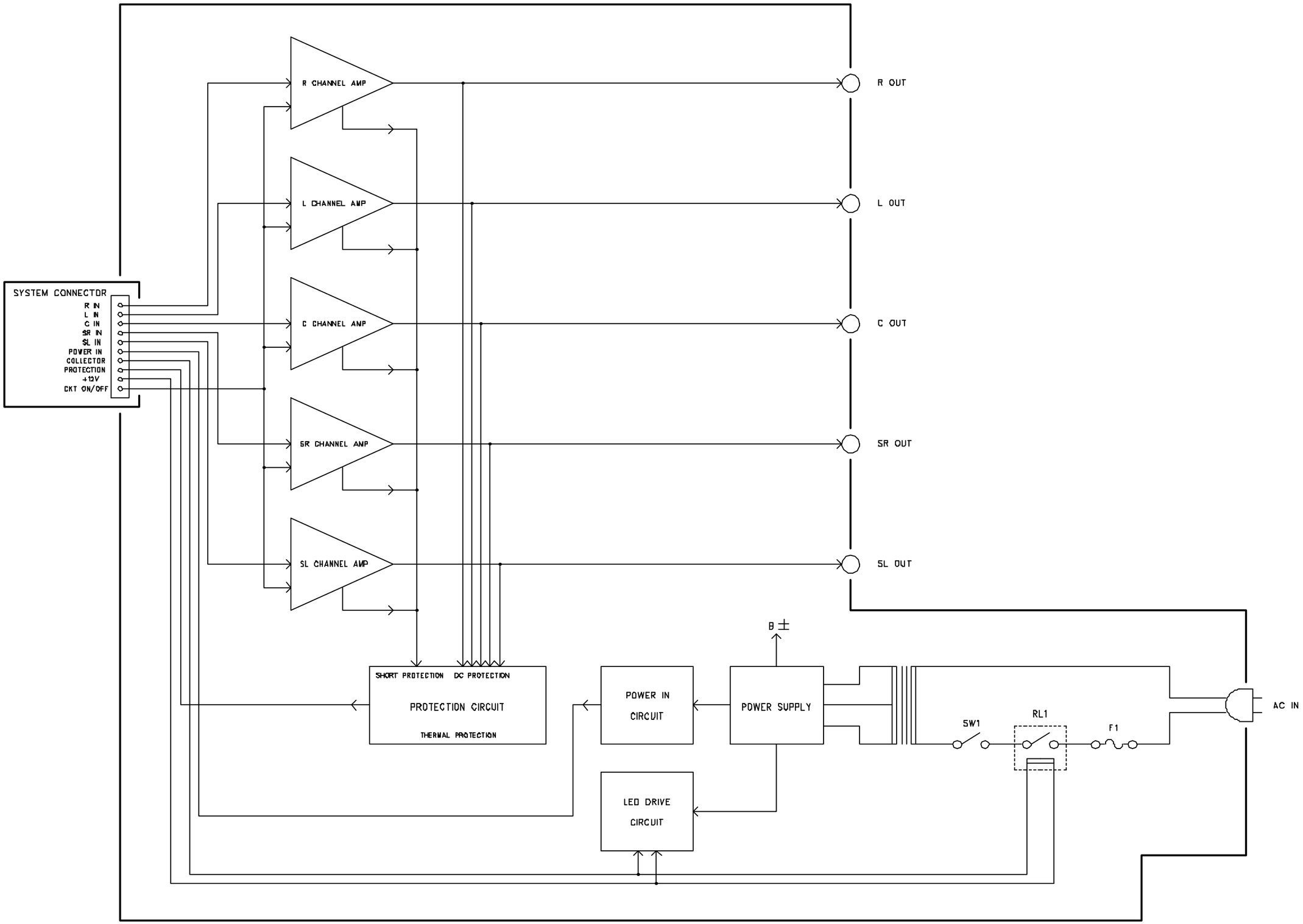
Digital-to-Analog Converter	3D Bitstream (MASH)
Frequency Response (±1dB)	20 – 20 kHz
Total Harmonic Distortion	0.08%
Dynamic Range	90 dB
Signal/Noise Ratio	95 dB
Channel Separation	90 dB
Dimensions (W x D x H)*	280 x 360 x 140 mm
Weight	2.8 kg

Power Amplifiers

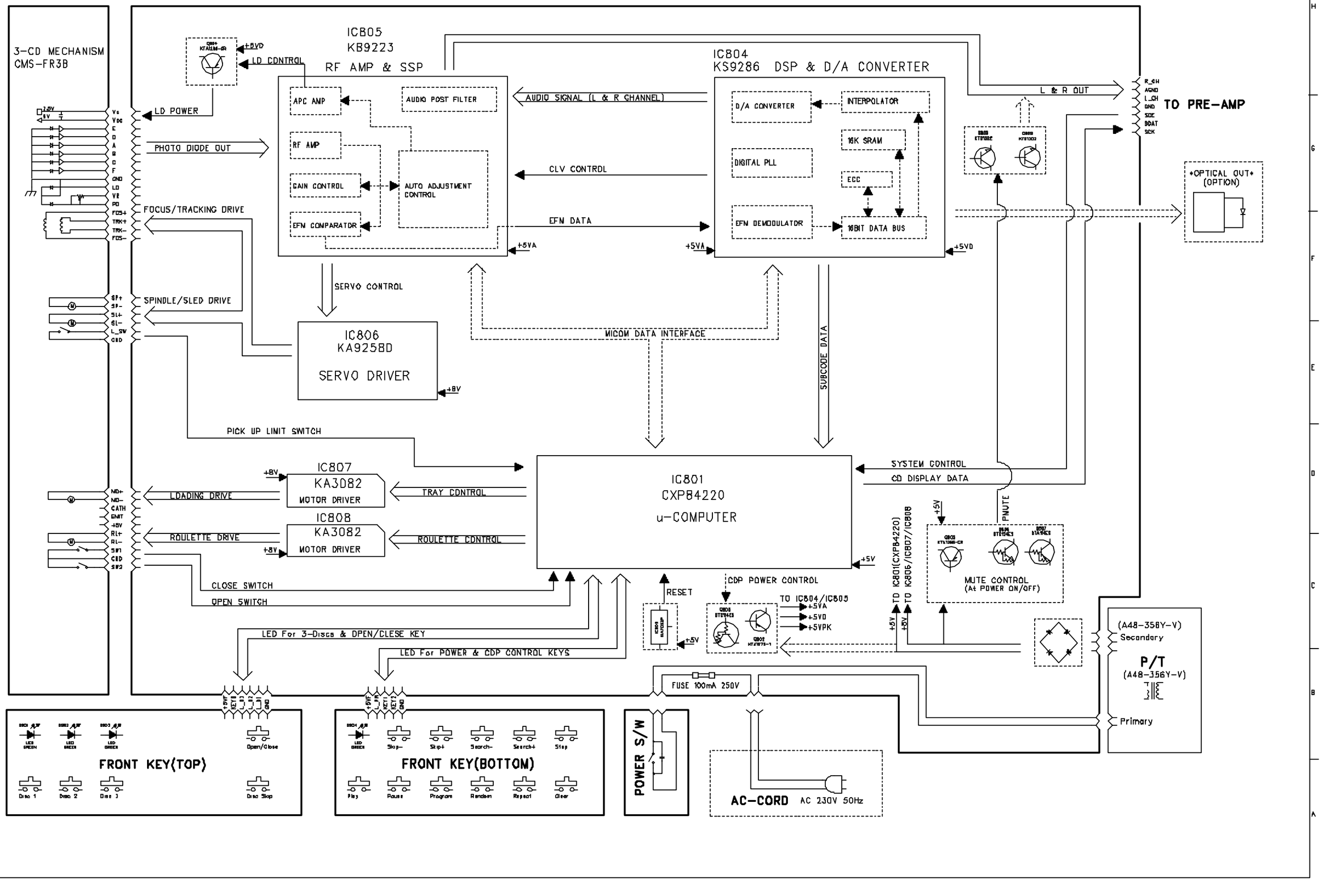
Power Ouput, Stereo, 8 Ω, 20 Hz – 20 kHz, <0.5% THD	2 x 40 Watts
Stereo, 4 Ω, DIN, 1 kHz, 1% THD	2 x 68 Watts
Surround, 8 Ω, 20 Hz – 20 kHz, <0.5% THD	5 x 30 Watts
Power Bandwidth, 8 Ω	20 Hz – 60 kHz
High Current Capability (HCC), Stereo	2 x ±30 A
Frequency Response, 1 W +0/-3 dB	5 Hz – 150 kHz
Rise Time	1.0 µsec
Slew Rate	80 V/µsec
Signal/Noise Ratio, ref. rated power, A-weighted	100 dB
Dimensions (W x D x H)*	280 x 360 x 140 mm
Weight	7 kg

** Depth measurements include buttons and terminals. Height measurements include chassis feet.*

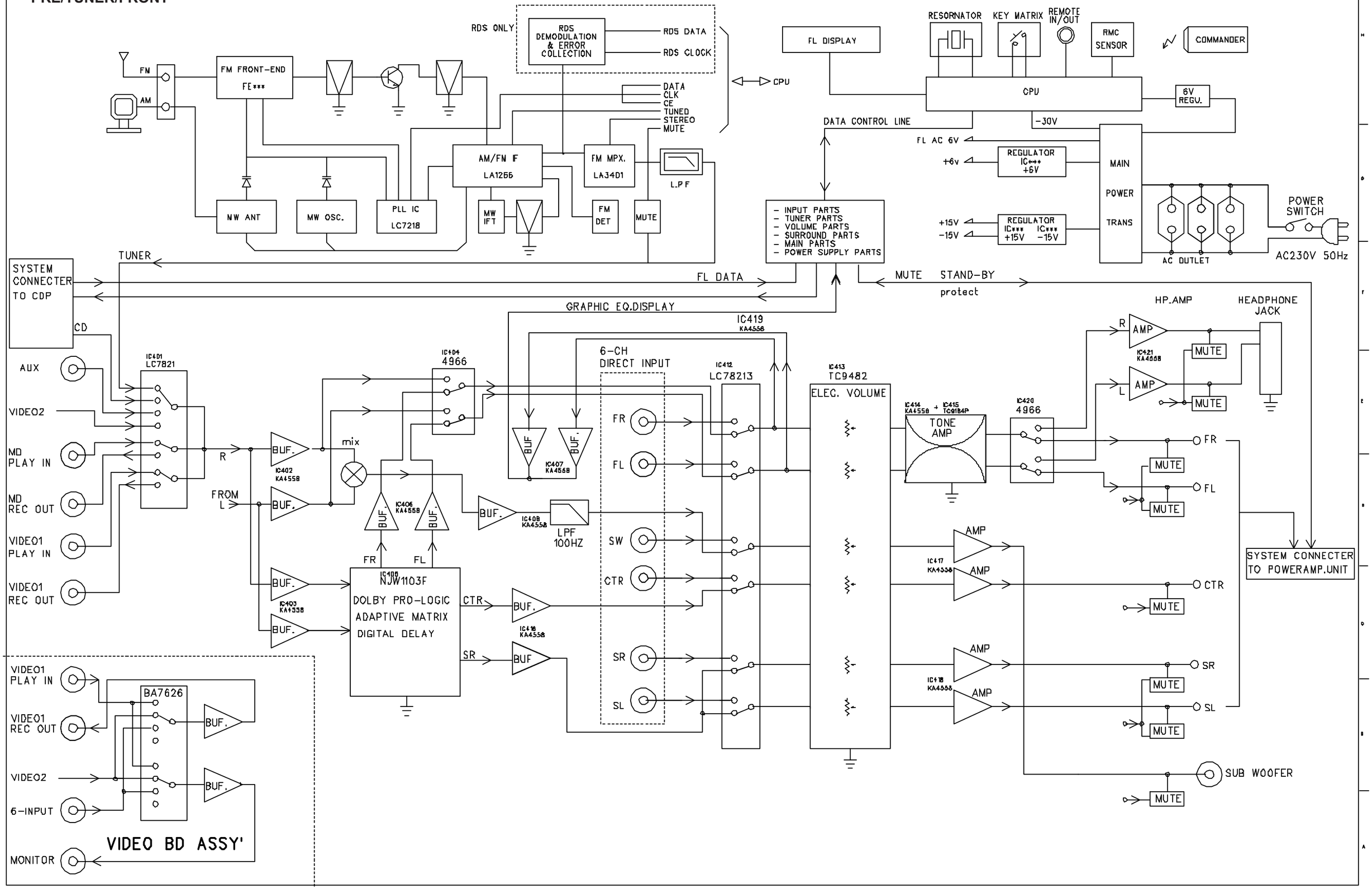
BLOCK DIAGRAM
POWER AMP



BLOCK DIAGRAM
CDP



BLOCK DIAGRAM
PRE/TUNER/FRONT



ELECTRICAL PART LIST

Ref. No.	Part No.	Description	
	PRE-AMP BLOCK		
	ASS'Y- MECHANISM		
	MISCELLANEOUS		
	AJAF-16520-014	ASS'Y-FOOT	F40-POWER (ABS+RUBBER2
	ANTL-00060-E50	ANTENNA-LOOP	AAN-007 19.5uH 7T 125x93
	ANTT-00090-075	ANTENNA-T TYPE	75ohm AFN009 3480 W/SOCK
	A2RG-J1000-01E	REMOCON	TRM-F40
	BAMN-00020-150	BATTERY MANGANESE	R06(AAM) 1.5V 14.5x50.
	BTEM-00030-500	FILTER-EMI	ZCAT1325-0530A-M-K
F1	FGFB-S1002-332	FUSE GLASS	1A 250V 5x20 V/S
F2	FGFB-S1002-332	FUSE GLASS	1A 250V 5x20 V/S
F3	FGFB-S1002-332	FUSE GLASS	1A 250V 5x20 V/S
F4	FGFB-S3152-139	FUSE GLASS	3.15A 250V 5.2x20 U/V/B
F5	FGFB-S5001-137	FUSE GLASS	500mA 250V FST034.3114
	KDAC-0562F-AA0	CORD-AC	KKP419C,KLCE-2F CORE&TUB
	KNCH-00090-FS0	CONNECTOR HOUSING	CFG1315-0101 1.5mm 15P
	KNCH-00090-7S0	CONNECTOR HOUSING	CFG1307-0101 1.5mm 7P
	LLA3-18121-E10	CARD CABLE	KF2B 18/120 P7 S9 B9
	LLA3-18181-E10	CARD CABLE	KF2B 18/180 P7 S4 B3
	LLA3-21201-E10	CARD CABLE	1.25x21Px200xCx(0.1x0.8)
	LLA3-21251-E10	CARD CABLE	1.25x21Px250xCx(0.1x0.8)
	MAAF-03420-012	WINDOW-FLT	F40-PRE AMP ACRYL SMOKE
	MAAF-16360-014	LENS-POWER	F40-POWER PMMA 60N
	MAAF-16380-014	FILTER-WINDOW	F40-PRE AMP PVC WINE T0.
	MJAF-06290-011	PANEL-FRONT	F40-PRE AMP HI-PS BLACK
	MJAF-08370-013	KNOB-SELECT	F40-PRE AMP ABS-720
	MJAF-08390-013	KNOB-FUNCTION(A)	F40-PRE AMP ABS-720
	MJAF-08400-013	KNOB-FUNCTION(B)	F40-PRE AMP ABS-720
	MJAF-16060-014	KNOB-SPEAKER	F40-POWER ABS-720
	MJAF-16370-014	KNOB-VOLUME	F40-PRE AMP ABS-720
	MJAF-16410-014	FOOT	F40-PRE AMP ABS-720
	MJAG-00280-003	CORD-BUSH	NIFCO
	MJAG-04540-004	CABLE-TIE-L80	*
	MMAC-16400-004	SCREW-T/P-TOOTH	3X10 BLACK
	MMTC-12180-004	SCREW-BH/W	
	MPAC-04900-012	CHASSIS-BACK	F40-PRE AMP SECC T0.8
	MPAC-04920-012	CHASSIS-TOP	F40-PRE AMP VCM T0.8
	MPAC-06160-001	CHASSIS-BOTTOM	US COATING T1.0
	MRAG-13200-004	CUSHION-A	(FELT 220*9*T0.5)
	MRAG-13220-004	CUSHION-FOOT	(RUBBER 25*19.5*T2)
	MWAW-00970-003	PALLETS	W940*D1150*H141
	PTAG-03650-YJV	TRANSFORMER-POWER	A57-365Y-V
	UF50-9E740-500	WIRE-ASS'Y	UL2468#26 WHT-400 15P
	U348-6A515-480	WIRE-ASS'Y	UL1617#22 BLU-150 3P
	U348-6A540-480	WIRE-ASS'Y	UL1617#22 BLU-400 3P
	U750-0E740-500	WIRE-ASS'Y	UL2468#26 BLK-400 7P
	XSTB-30060-ZY4	SCREW-TAPPING	BHT2T 3x6 FE-ZY
	XSTB-30080-ZB4	SCREW-TAPPING	BHT2T 3x8 FE-ZB
	XSTB-30080-ZY4	SCREW-TAPPING	BHT2T 3x8 FE-ZY
	XSTB-30100-ZB4	SCREW-TAPPING	BHT2T 3x10 FE-ZB
	XSTB-30100-ZY4	SCREW-TAPPING	BHT2T 3x10 FE-ZY
	XSTW-30080-ZY4	SCREW-TAPPING	PH/WT2T 3x8 FE-ZY
	YGAP-14810-014	BOX GIFT	F40-PRE AMP (DW-2 357*42
	YGAP-14820-014	SLEEVE PACKING	F40-POWER (SW-1)
	YGAP-14840-004	BOX-ACCESSORIES	(175*35*30)
	YSAP-12120-002	CUSHION L	(EPS)
	YSAP-12130-002	CUSHION R	(EPS)
	YVAP-01862-014	POLY-BAG-I(G)	TCS-1010
	YVAP-13321-014	TOLON-SHEET	FJ-656 600x1200 0.5
	7JJG-00212-001	PACKING WRAP	500mm*1400m
C300	CEET-J470M-DI0	CAPACITOR E/ALUMINUM	47uF M 50V 6.3x11

Ref. No.	Part No.	Description	
	CAPACITORS		
C301	CEET-J100M-DC0	CAPACITOR E/ALUMINUM	10uF M 50V 6.3x5
C302	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C303	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C304	CEET-C470M-CC1	CAPACITOR E/ALUMINUM	47uF M 6.3V 5x5
C306	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C307	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C308	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C312	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C313	CEET-C470M-CC1	CAPACITOR E/ALUMINUM	47uF M 6.3V 5x5
C314	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C315	CCTT-J330J-0DC	CAPACITOR CERAMIC	33PF J 50V CH T
C316	CEET-C470M-CC1	CAPACITOR E/ALUMINUM	47uF M 6.3V 5x5
C317	CCTT-J180J-0BC	CAPACITOR CERAMIC	18PF J 50V CH T
C318	CCTT-J330J-0DC	CAPACITOR CERAMIC	33PF J 50V CH T
C319	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C320	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C321	CCAT-F103Z-AAF	CAPACITOR CERAMIC	0.01uF Z 25V F T
C380	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C381	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C382	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C383	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C384	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C385	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C386	CCTT-J221J-0JC	CAPACITOR CERAMIC	220PF J 50V CH T
C387	CCTT-J221J-0JC	CAPACITOR CERAMIC	220PF J 50V CH T
C388	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C389	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C583	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C584	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C585	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C586	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C587	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C588	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C589	CCTT-J221J-0JC	CAPACITOR CERAMIC	220PF J 50V CH T
C590	CCTT-J221J-0JC	CAPACITOR CERAMIC	220PF J 50V CH T
C591	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C592	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C595	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C596	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C597	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C601	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C602	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C604	CCAT-F223Z-AAF	CAPACITOR CERAMIC	0.022uF Z 25V F T
C605	CEET-E470M-DC0	CAPACITOR E/ALUMINUM	47uF M 16V 6.3x5
C606	CCAT-F223Z-AAF	CAPACITOR CERAMIC	0.022uF Z 25V F T
C607	CCAT-F223Z-AAF	CAPACITOR CERAMIC	0.022uF Z 25V F T
C608	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C609	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C610	CCTT-J221J-0JC	CAPACITOR CERAMIC	220PF J 50V CH T
C611	CCCT-J473Z-0JF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C613	CCTT-J100D-0BC	CAPACITOR CERAMIC	10PF D 50V CH T
C614	CCTT-J221J-0JC	CAPACITOR CERAMIC	220PF J 50V CH T
C615	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11
C616	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C617	CCAT-F223Z-AAF	CAPACITOR CERAMIC	0.022uF Z 25V F T
C618	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C619	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C620	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C621	CFMT-N223J-EK0	CAPACITOR F/POLYESTR	0.022uF J 100V 7.4x13
C622	CEET-J3R3M-CI0	CAPACITOR E/ALUMINUM	3.3uF M 50V 5x11

Ref. No.	Part No.	Description	
	CAPACITORS		
C623	CFMT-N332J-DJ0	CAPACITOR F/POLYESTR	0.0033uF J 100V 5.8x12
C624	CFMT-N393J-FK0	CAPACITOR F/POLYESTR	0.039uF J 100V 8.5x13.
C625	CCAT-F103Z-AAF	CAPACITOR CERAMIC	0.01uF Z 25V F T
C626	CEET-JR47M-CI0	CAPACITOR E/ALUMINUM	0.47uF M 50V 5x11
C627	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C628	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C629	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C630	CCCT-J473Z-0JF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C631	CCTT-J331J-0FZ	CAPACITOR CERAMIC	330PF J 50V SL T
C632	CCTT-J181J-0DZ	CAPACITOR CERAMIC	180PF J 50V SL T
C633	CCTT-J910J-0FC	CAPACITOR CERAMIC	91PF J 50V CH T
C634	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C635	CCCT-J103Z-0DF	CAPACITOR CERAMIC	0.01uF Z 50V F T
C636	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C637	CCTT-J300J-0CC	CAPACITOR CERAMIC	30PF J 50V CH T
C638	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C639	CCTT-J300J-0CC	CAPACITOR CERAMIC	30PF J 50V CH T
C640	CEET-JR47M-CI0	CAPACITOR E/ALUMINUM	0.47uF M 50V 5x11
C641	CCCT-J103Z-0DF	CAPACITOR CERAMIC	0.01uF Z 50V F T
C642	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C643	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C644	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C645	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C646	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C647	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C649	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11
C650	CEET-J2R2M-CI0	CAPACITOR E/ALUMINUM	2.2uF M 50V 5x11
C651	CEET-J2R2M-CI0	CAPACITOR E/ALUMINUM	2.2uF M 50V 5x11
C652	CCAT-J100J-AAC	CAPACITOR CERAMIC	10PF J 50V C T
C653	CCAT-J100J-AAC	CAPACITOR CERAMIC	10PF J 50V C T
C654	CCAT-J221K-AAB	CAPACITOR CERAMIC	220PF K 50V B T
C655	CCAT-J221K-AAB	CAPACITOR CERAMIC	220PF K 50V B T
C656	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11
C657	CCCT-J681K-0BB	CAPACITOR CERAMIC	680PF K 50V B T
C658	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C659	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11
C660	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C661	CEET-E101M-DI0	CAPACITOR E/ALUMINUM	100uF M 16V 6.3x11
C662	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C663	CEET-JR22M-CI0	CAPACITOR E/ALUMINUM	0.22uF M 50V 5x11
C664	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C665	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C666	CCAT-J271K-AAB	CAPACITOR CERAMIC	270PF K 50V B T
C667	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C668	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C669	CCAT-F223Z-AAF	CAPACITOR CERAMIC	0.022uF Z 25V F T
C670	CCAT-F223Z-AAF	CAPACITOR CERAMIC	0.022uF Z 25V F T
C671	CEET-G100M-CC0	CAPACITOR E/ALUMINUM	10uF M 35V 5x5
C673	CCTT-J100D-0BC	CAPACITOR CERAMIC	10PF D 50V CH T
C674	CCTT-J100D-0BC	CAPACITOR CERAMIC	10PF D 50V CH T
C675	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C676	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C677	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C701	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11
C702	CEET-D471M-FI1	CAPACITOR E/ALUMINUM	470uF M 10V 8x11.5 U
C703	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11
C704	CEET-D471M-FI1	CAPACITOR E/ALUMINUM	470uF M 10V 8x11.5 U
C705	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C706	CEET-D471M-FI1	CAPACITOR E/ALUMINUM	470uF M 10V 8x11.5 U
C708	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T

Ref. No.	Part No.	Description	
	CAPACITORS		
C709	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C713	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11
C714	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C715	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C716	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C717	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C744	CACS-S102K-181	CAPACITOR AC	DE7090 B102KVA1 250V BS4
C746	CEET-C221M-DE0	CAPACITOR E/ALUMINUM	220uF M 6.3V 6.3x7
C747	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C748	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C749	CEET-J4R7M-BC0	CAPACITOR E/ALUMINUM	4.7uF M 50V 4x5
C750	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C751	CCCT-J332K-0DB	CAPACITOR CERAMIC	3300PF K 50V B T
C754	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C755	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C757	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C758	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C759	CCCT-J102K-0BB	CAPACITOR CERAMIC	1000PF K 50V B T
C760	CCCT-J102K-0BB	CAPACITOR CERAMIC	1000PF K 50V B T
C761	CCCT-J102K-0BB	CAPACITOR CERAMIC	1000PF K 50V B T
C762	CCTT-J561J-0HZ	CAPACITOR CERAMIC	560PF J 50V SL T
C763	CCTT-J561J-0HZ	CAPACITOR CERAMIC	560PF J 50V SL T
C764	CCAT-F223Z-AAF	CAPACITOR CERAMIC	0.022uF Z 25V F T
C765	CEET-J3R3M-CI0	CAPACITOR E/ALUMINUM	3.3uF M 50V 5x11
	CEGS-B473J-0J0	CAPACITOR E/DO LAYER	0.047 J 5.5V SCDA5R5473H
	DIODES		
VD601	DDSV-00120-S10	DIODE-VVC	SVC321SPA-C2 AM8V DO40S
VD602	DDSV-00120-S10	DIODE-VVC	SVC321SPA-C2 AM8V DO40S
D302	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D309	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D602	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D603	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D604	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D606	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D607	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
ZD601	DDTZ-G051B-SOS	DIODE ZENER	MTZJ5.1B 4.94-5.20 DO34
ZD602	DDTZ-G051B-SOS	DIODE ZENER	MTZJ5.1B 4.94-5.20 DO34
ZD605	DDTZ-G075B-SO0	DIODE ZENER	MTZ7.5B 7.07-7.45 D040
DP1	DPFL-00720-00A	DISPLAY-FLUORSCENT	HNA-16LM12
LD300	DPLT-00860-GG5	DOT-LED	LTL-307G GRN R5
	INTEGRATED CIRCUITS		
IC300	ICMP-03700-S40	MICOM	CXP82224-146Q
IC302	ICLN-03800-TQ0	IC EQ	MSGEQ7 DIP8
IC303	ICHY-00371-U80	IC REMOTE RECEIVER	HI-M602H
IC323	ICRG-00570-SD0	IC SYSTEM RESET	KIA7021P/F 2.1V TO-92
IC417	ICOP-03120-SG0	IC DUAL OP AMP	NJM4580D
IC418	ICOP-03120-SG0	IC DUAL OP AMP	NJM4580D
IC601	ICLN-03620-S10	IC AM/FM IF	LA1266 DIP24
IC602	ICLN-03680-S10	IC PLL	LC7218JM SOP-24
IC603	ICLN-03610-S10	IC PLL FM MPX	LA3401 DIP22
IC604	ICLN-03630-SR0	IC RDS DEMODULATOR	TDA7479D SOP16
IC605	ICRG-00500-SD0	IC REGULATOR	KIA78S12P
IC701	ICCM-20630-SO0	IC VIDEO SWITCHER	BA7626 DIP16
	COILS		
L602	KIFK-00080-E20	COIL-FM CHOKE	AFK016 A187LY-K5006 20.8
L603	KI0T-4101K-003	COIL-INDUCTOR	100uH K LA 40 T L 02
T601	KIAT-00530-E20	COIL-AM ANT	AAT053 MW 7mm - CAN

Ref. No.	Part No.	Description	
	COILS		
T602	KIAO-00460-E20	COIL-AM OSC	AAO046 MW 7mm - CAN
T603	KIAA-00260-E20	COIL-AM IFT	AAA-026 7MC-K502713N4-KR
T604	IFFA-00110-E20	IFT-FM	AFA011 7mm-CAN
T605	IFFD-00100-E20	IFT-FM DET	AFD010 7mm-CAN
T606	KIML-A0010-E20	COIL-FM MPX FILTER	AMA001 19KHz 10mm-CAN
T607	KIML-A0010-E20	COIL-FM MPX FILTER	AMA001 19KHz 10mm-CAN
	RESISTORS		
R273	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T
R301	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R302	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R303	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R304	RCFT-E105J-000	RESISTOR-CARBON FILM	1Mohm 1/5W 5% T
R309	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R310	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R312	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R313	RCFT-E204J-000	RESISTOR-CARBON FILM	200Kohm 1/5W 5% T
R314	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R315	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R316	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R318	RCFT-E122J-000	RESISTOR-CARBON FILM	1.2Kohm 1/5W 5% T
R319	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R320	RCFT-E122J-000	RESISTOR-CARBON FILM	1.2Kohm 1/5W 5% T
R321	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R322	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R323	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R324	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T
R325	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T
R326	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T
R327	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T
R328	RCFT-E822J-000	RESISTOR-CARBON FILM	8.2Kohm 1/5W 5% T
R329	RCFT-E822J-000	RESISTOR-CARBON FILM	8.2Kohm 1/5W 5% T
R330	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R332	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R333	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R334	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R335	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R336	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R338	RCFT-E105J-000	RESISTOR-CARBON FILM	1Mohm 1/5W 5% T
R369	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R370	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R371	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R372	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R373	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R376	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R385	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R387	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R388	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R389	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R390	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R391	RCFT-E225J-000	RESISTOR-CARBON FILM	2.2Mohm 1/5W 5% T
R395	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R396	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R397	RCFT-E225J-000	RESISTOR-CARBON FILM	2.2Mohm 1/5W 5% T
R398	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R399	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R524	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R529	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R530	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R531	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T

Ref. No.	Part No.	Description	
	RESISTORS		
R532	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R533	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R534	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R535	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R536	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R537	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R538	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R539	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R551	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R552	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R553	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R554	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R555	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R556	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R557	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R558	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R559	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R560	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R561	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R562	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R604	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R605	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R606	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R607	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R608	RCFT-E331J-000	RESISTOR-CARBON FILM	330ohm 1/5W 5% T
R609	RCFT-E331J-000	RESISTOR-CARBON FILM	330ohm 1/5W 5% T
R610	RCFT-E7R5J-000	RESISTOR-CARBON FILM	7.5ohm 1/5W 5% T
R611	RCFT-E271J-000	RESISTOR-CARBON FILM	270ohm 1/5W 5% T
R613	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R614	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R618	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R621	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R622	RCFT-E683J-000	RESISTOR-CARBON FILM	68Kohm 1/5W 5% T
R623	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R624	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R626	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T
R627	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R628	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T
R629	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T
R630	RCFT-E682J-000	RESISTOR-CARBON FILM	6.8Kohm 1/5W 5% T
R631	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R632	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R633	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R634	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R635	RCFT-E823J-000	RESISTOR-CARBON FILM	82Kohm 1/5W 5% T
R636	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R637	RCFT-E151J-000	RESISTOR-CARBON FILM	150ohm 1/5W 5% T
R638	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R639	RCFT-E225J-000	RESISTOR-CARBON FILM	2.2Mohm 1/5W 5% T
R640	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R641	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R642	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T
R643	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R645	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R646	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R647	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R648	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R649	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R650	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R651	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T

Ref. No.	Part No.	Description	
	RESISTORS		
R659	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R660	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R661	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R662	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R663	RCFT-E272J-000	RESISTOR-CARBON FILM	2.7Kohm 1/5W 5% T
R664	RCFT-E272J-000	RESISTOR-CARBON FILM	2.7Kohm 1/5W 5% T
R665	RCFT-E622J-000	RESISTOR-CARBON FILM	6.2Kohm 1/5W 5% T
R666	RCFT-E622J-000	RESISTOR-CARBON FILM	6.2Kohm 1/5W 5% T
R667	RCFT-E274J-000	RESISTOR-CARBON FILM	270Kohm 1/5W 5% T
R668	RCFT-E274J-000	RESISTOR-CARBON FILM	270Kohm 1/5W 5% T
R669	RCFT-E224J-000	RESISTOR-CARBON FILM	220Kohm 1/5W 5% T
R670	RCFT-E224J-000	RESISTOR-CARBON FILM	220Kohm 1/5W 5% T
R671	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R672	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R673	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R674	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R675	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R676	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R677	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R678	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R679	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R680	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R681	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R683	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R684	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R701	RCFT-E750J-000	RESISTOR-CARBON FILM	75ohm 1/5W 5% T
R702	RCFT-E750J-000	RESISTOR-CARBON FILM	75ohm 1/5W 5% T
R703	RCFT-E750J-000	RESISTOR-CARBON FILM	75ohm 1/5W 5% T
R704	RCFT-E750J-000	RESISTOR-CARBON FILM	75ohm 1/5W 5% T
R705	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R706	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R707	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R708	RCFT-E3R3J-000	RESISTOR-CARBON FILM	3.3ohm 1/5W 5% T
R709	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R710	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R711	RCFT-E750J-000	RESISTOR-CARBON FILM	75ohm 1/5W 5% T
R712	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R713	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R717	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R718	RCFT-E225J-000	RESISTOR-CARBON FILM	2.2Mohm 1/5W 5% T
R721	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R723	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R724	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R726	RCFT-E151J-000	RESISTOR-CARBON FILM	150ohm 1/5W 5% T
	TRANSISTORS		
Q301	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q409	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q410	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q411	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q412	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q413	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q414	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q415	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q601	TRTC-0010Y-SD0	TRANSISTOR N-H FREQ	KTC3194-Y TO92
Q603	TRTC-0015G-SD0	TRANSISTOR N-H FREQ	KTC3200-GR TO92
Q605	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q606	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q607	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q608	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M

Ref. No.	Part No.	Description	
	TRANSISTORS		
Q609	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q610	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q611	TRTC-0015G-SD0	TRANSISTOR N-H FREQ	KTC3200-GR TO92
Q612	TRTC-0015G-SD0	TRANSISTOR N-H FREQ	KTC3200-GR TO92
Q618	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q701	TRTA-0008Y-SD0	TRANSISTOR P-H FREQ	KTA1266-Y TO92
Q702	TRTA-0008Y-SD0	TRANSISTOR P-H FREQ	KTA1266-Y TO92
	CONTROLS		
CT601	VCTC-00022-200	TRIMMER	CVCN06C200
VR601	VFEB-A022C-103	RESISTOR-SEMI FIXED	RH063MC14R 10Kohm
VR603	VFEB-A022C-224	RESISTOR-SEMI FIXED	RH063MCJ5R 220Kohm
VR602	VFEB-A022C-473	RESISTOR-SEMI FIXED	RH063MCS4R 47Kohm
	MISCELLANEOUS		
CF601	BTBP-00140-BPM	FILTER-MICA PRINT	GFMB3-T
CF602	BTCE-00040-107	FILTER-CERAMIC	SFE10.7MS2-A-TF21
CF604	BTCE-00450-045	FILTER-CERAMIC	AHCFM2-450AL
CF606	BTCE-00152-107	FILTER-CERAMIC	SFE10.7MJA10H-A-TF21
DP1	DPFL-00720-00A	DISPLAY-FLUORSCENT	HNA-16LM12
J315	KNCW-00140-9TM	CONNECTOR-WAFER	5267-09A 2.5mm MILK
J325	KNCW-00240-4T9	CONNECTOR-WAFER	53014-04 2.0mm WHT
TP1	KNCW-00240-4T9	CONNECTOR-WAFER	53014-04 2.0mm WHT
	KNCW-00240-2T9	CONNECTOR-WAFER	53014-02 2.0mm WHT
CN5	KNCW-00380-FS0	CONNECTOR WAFER	CFG1115-0101 1.5mm 15P
CN5	KNCW-00380-7S0	CONNECTOR WAFER	CFG1107-0101 1.5mm 7P
CN413	KNCW-06531-18T	CONNECTOR-WAFER	00-6216-018-110-808A 18P
CN414	KNCW-06531-18T	CONNECTOR-WAFER	00-6216-018-110-808A 18P
CW19	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02
J302	KNCW-06531-21T	CONNECTOR-WAFER	00-6216-021-110-808A 21P
J321	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02
J322	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02
J323	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02
J326	KNCW-06531-21T	CONNECTOR-WAFER	00-6216-021-110-808A 21P
TP601	KNCW-01490-2T9	CONNECTOR-WAFER	JE115-AT-02P
TP602	KNCW-01490-2T9	CONNECTOR-WAFER	JE115-AT-02P
TP603	KNCW-01490-2T9	CONNECTOR-WAFER	JE115-AT-02P
	KNCW-01510-ES9	CONNECTOR-WAFER	35237-1410 2M/M 14P
X301	KTRE-00220-080	RESONATOR	CST8.00MTW-TF01
X302	KTAL-00360-327	CRYSTAL	QW-6 32.768kHz
X601	KTAL-00041-072	CRYSTAL	HC-49/U 7.200000MHz
X602	KTAL-00321-433	CRYSTAL	HC-49/U 4.332MHz
CF605	KTRE-00300-288	RESONATOR	ZTB456F11
FC301	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
FC302	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
	MRAG-13180-004	CUSHION-A	(EVA 45*10*T2)
	MRAG-13190-004	CUSHION-A	(EVA 8*8*T7)
PCB1	PCSF-05130-11B	PCB-SINGLE	A1F-513 330x247x1.
JK701	SKRC-00770-060	SOCKET-RCA	JC0300121N
JK702	SKPH-00252-66W	SOCKET-PHONE	HTJ064-05A(G) W/NUT WASH
JK703	SKRC-00251-041	PIN JACK BOARD	JC0401005N
SW301	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW302	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW303	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW304	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW305	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW306	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW307	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW308	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW309	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA

Ref. No.	Part No.	Description	
	MISCELLANEOUS		
SW310	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW311	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW312	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW313	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW314	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW315	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA
SW316	VRAE-E052B-220	VR-ROTARY	EC16B22040A
SW701	SWPU-00591-059	SWITCH-PUSH	SDDLB13300
	TEAT-00160-02S	TERMINAL ANTENNA	SC0210392N
FE601	TUFF-00310-00K	FRONT-END	FTE4-400TA
J328	U208-1M710-250	WIRE-ASS'Y	UL1007#26 BRN-100 2P
J306	U908-8M725-250	WIRE-ASS'Y	UL1007#26 GRY-250 9P
J308	U808-7M725-250	WIRE-ASS'Y	UL1007#26 VIT-250 8P
J315	U910-8M715-200	WIRE-ASS'Y	UL1007#26 GRY-150 9P
J327	U708-6M715-250	WIRE-ASS'Y	UL1007#26 BLU-150 7P
	ASS'Y-MAIN BOARD		
	CAPACITORS		
C5	CFMT-N102J-CJ0	CAPACITOR F/POLYESTR	0.001uF J 100V 5.3x12.
C8	CFMT-N222J-CJ0	CAPACITOR F/POLYESTR	0.0022uF J 100V 5.5x12
C10	CFMT-N222J-CJ0	CAPACITOR F/POLYESTR	0.0022uF J 100V 5.5x12
C11	CFMT-N222J-CJ0	CAPACITOR F/POLYESTR	0.0022uF J 100V 5.5x12
C61	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C65	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C71	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C390	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C391	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C392	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C393	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C394	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C395	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C396	CEET-E471M-FI1	CAPACITOR E/ALUMINUM	470uF M 16V 8x11.5 U
C397	CEET-E471M-FI1	CAPACITOR E/ALUMINUM	470uF M 16V 8x11.5 U
C398	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7
C399	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7
C400	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C401	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C402	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C403	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C404	CFMT-N123J-EK0	CAPACITOR F/POLYESTR	0.012uF J 100V 7.0x13
C405	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C406	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C407	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C408	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C409	CFMT-N123J-EK0	CAPACITOR F/POLYESTR	0.012uF J 100V 7.0x13
C410	CFMT-L224J-EF0	CAPACITOR F/POLYESTR	0.22uF J 63V 7.5x8.5 TL
C411	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C412	CFMT-L224J-EF0	CAPACITOR F/POLYESTR	0.22uF J 63V 7.5x8.5 TL
C413	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C414	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C415	CFMT-L224J-EF0	CAPACITOR F/POLYESTR	0.22uF J 63V 7.5x8.5 TL
C416	CFMT-L224J-EF0	CAPACITOR F/POLYESTR	0.22uF J 63V 7.5x8.5 TL
C417	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C418	CFMT-N562J-DJ0	CAPACITOR F/POLYESTR	0.0056uF J 100V 5.8x12
C419	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C420	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C421	CFMT-L684J-FI0	CAPACITOR F/POLYESTR	0.68uF J 63V 8x11.5 TL
C422	CFST-O821J-CJ0	CAPACITOR F/STYROL	820PF J 125V 5.5x12
C423	CCAT-J471K-AAB	CAPACITOR CERAMIC	470PF K 50V B T
C424	CFMT-N122J-CJ0	CAPACITOR F/POLYESTR	0.0012uF J 100V 5.4x12

Ref. No.	Part No.	Description	
	CAPACITORS		
C425	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7
C426	CFMT-N683J-HK0	CAPACITOR F/POLYESTR	0.068uF J 100V 9.9x14
C427	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C428	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C429	CFMT-N683J-HK0	CAPACITOR F/POLYESTR	0.068uF J 100V 9.9x14
C430	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7
C431	CFMT-L105J-EHN	CAPACITOR F/POLYESTR	EB 1uF J 50V 7.2x10 T
C432	CEET-F220M-CI0	CAPACITOR E/ALUMINUM	22uF M 25V 5x11
C433	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C434	CEET-F220M-CI0	CAPACITOR E/ALUMINUM	22uF M 25V 5x11
C435	CEET-JR68M-CI0	CAPACITOR E/ALUMINUM	0.68uF M 50V 5x11
C436	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C437	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C438	CEET-E221M-FI0	CAPACITOR E/ALUMINUM	220uF M 16V 8x11.5
C439	CEET-F220M-CI0	CAPACITOR E/ALUMINUM	22uF M 25V 5x11
C440	CFMT-N562J-DJ0	CAPACITOR F/POLYESTR	0.0056uF J 100V 5.8x12
C441	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C442	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C443	CCCT-J681K-0BB	CAPACITOR CERAMIC	680PF K 50V B T
C444	CCCT-J681K-0BB	CAPACITOR CERAMIC	680PF K 50V B T
C445	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C446	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C447	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C448	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C449	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14
C450	CFMT-N152J-CJ0	CAPACITOR F/POLYESTR	0.0015uF J 100V 5.4x12
C451	CFMT-N152J-CJ0	CAPACITOR F/POLYESTR	0.0015uF J 100V 5.4x12
C452	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C453	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C455	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C456	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C457	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C458	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C459	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C460	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C461	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C462	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C463	CEET-E101M-DI0	CAPACITOR E/ALUMINUM	100uF M 16V 6.3x11
C464	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C465	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C466	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C467	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C468	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C469	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C470	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C471	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C472	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C473	CEET-J3R3M-CI0	CAPACITOR E/ALUMINUM	3.3uF M 50V 5x11
C475	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C476	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C477	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C478	CFMT-N563J-GK0	CAPACITOR F/POLYESTR	0.056uF J 100V 9.5x14
C479	CFMT-N563J-GK0	CAPACITOR F/POLYESTR	0.056uF J 100V 9.5x14
C480	CFMT-J362J-CEN	CAPACITOR F/POLYESTR	TS 0.0036uF J 50V 5.5x7
C481	CFMT-J362J-CEN	CAPACITOR F/POLYESTR	TS 0.0036uF J 50V 5.5x7
C484	CFMT-N822J-DJ0	CAPACITOR F/POLYESTR	0.0082uF J 100V 6.5x12
C485	CFMT-N822J-DJ0	CAPACITOR F/POLYESTR	0.0082uF J 100V 6.5x12
C486	CFMT-N154J-HH0	CAPACITOR F/POLYESTR	0.15uF J 100V 10.3x9.8
C487	CFMT-N154J-HH0	CAPACITOR F/POLYESTR	0.15uF J 100V 10.3x9.8
C488	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11

Ref. No.	Part No.	Description	
	CAPACITORS		
C489	CEET-J2R2M-CI0	CAPACITOR E/ALUMINUM	2.2uF M 50V 5x11
C490	CEET-J2R2M-CI0	CAPACITOR E/ALUMINUM	2.2uF M 50V 5x11
C491	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C492	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C493	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C494	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C495	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C496	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C497	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C499	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C500	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C501	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C502	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C503	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C506	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C507	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C508	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C509	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C510	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C511	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C512	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C513	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C514	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C515	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C516	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C517	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C518	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C519	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C520	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C521	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C522	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C523	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C524	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C525	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C526	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C527	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C528	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C529	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C530	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C531	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C532	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C533	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C534	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C535	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C536	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C537	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C538	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C539	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C541	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C542	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C543	CFMT-N154J-HH0	CAPACITOR F/POLYESTR	0.15uF J 100V 10.3x9.8
C544	CFMT-N333J-FK0	CAPACITOR F/POLYESTR	0.033uF J 100V 8.1x13
C546	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C549	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C550	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C551	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C552	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C553	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C555	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C574	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11

Ref. No.	Part No.	Description	
	CAPACITORS		
C575	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C576	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C577	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C578	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C579	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C580	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C581	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C582	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C597	CFMT-N102J-CJ0	CAPACITOR F/POLYESTR	0.001uF J 100V 5.3x12.
C680	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C681	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C682	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C683	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C686	CFMT-N102J-CJ0	CAPACITOR F/POLYESTR	0.001uF J 100V 5.3x12.
C688	CFMT-N102J-CJ0	CAPACITOR F/POLYESTR	0.001uF J 100V 5.3x12.
C689	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C690	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C722	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C723	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C724	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C725	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C726	CEEC-G332M-MT1	CAPACITOR E/ALUMINUM	3300uF M 35V 18x40
C727	CEEM-G222M-LR1	CAPACITOR E/ALUMINUM	2200uF M 35V 16x31.5 U
C728	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C729	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C730	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C731	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C732	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C733	CFMT-L224J-EF0	CAPACITOR F/POLYESTR	0.22uF J 63V 7.5x8.5 TL
C735	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C736	CEET-E222M-KL0	CAPACITOR E/ALUMINUM	2200uF M 16V 12.5x16
C737	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C738	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C739	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C740	CCCT-J103Z-0DF	CAPACITOR CERAMIC	0.01uF Z 50V F T
C741	CEET-J101M-FI0	CAPACITOR E/ALUMINUM	100uF M 50V 8x11.5
C751	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C752	CCAT-J101K-AAB	CAPACITOR CERAMIC	100PF K 50V B T
C753	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C754	CCTT-J101J-0CZ	CAPACITOR CERAMIC	100PF J 50V SL T
C755	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C756	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C757	CEET-J470M-DI0	CAPACITOR E/ALUMINUM	47uF M 50V 6.3x11
C758	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C759	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C760	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C761	CEET-L331M-DI1	CAPACITOR E/ALUMINUM	330uF M 63V 10x20 SHL
C762	CFMT-N102J-CJ0	CAPACITOR F/POLYESTR	0.001uF J 100V 5.3x12.
C763	CFMT-N102J-CJ0	CAPACITOR F/POLYESTR	0.001uF J 100V 5.3x12.
C764	CEET-E101M-DI0	CAPACITOR E/ALUMINUM	100uF M 16V 6.3x11
C765	CEET-E101M-DI0	CAPACITOR E/ALUMINUM	100uF M 16V 6.3x11
C766	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C767	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C769	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C770	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C771	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C772	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C773	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C774	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C775	CCTT-J221J-0DZ	CAPACITOR CERAMIC	220PF J 50V SL T

Ref. No.	Part No.	Description	
	CAPACITORS		
C776	CCTT-J221J-0DZ	CAPACITOR CERAMIC	220PF J 50V SL T
C777	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C778	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C779	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C780	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C781	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C782	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C783	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C784	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C785	CCAT-J473Z-AAF	CAPACITOR CERAMIC	0.047uF Z 50V F T
C786	CFMT-N152J-CJ0	CAPACITOR F/POLYESTR	0.0015uF J 100V 5.4x12
C787	CFMT-N392J-DJ0	CAPACITOR F/POLYESTR	0.0039uF J 100V 5.8x12
C788	CFMT-N392J-DJ0	CAPACITOR F/POLYESTR	0.0039uF J 100V 5.8x12
C789	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C790	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C791	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C792	CEET-J2R2M-CI0	CAPACITOR E/ALUMINUM	2.2uF M 50V 5x11
C793	CFMT-N222J-CJ0	CAPACITOR F/POLYESTR	0.0022uF J 100V 5.5x12
C794	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C795	CFMT-N222J-CJ0	CAPACITOR F/POLYESTR	0.0022uF J 100V 5.5x12
C796	CEET-J470M-DI0	CAPACITOR E/ALUMINUM	47uF M 50V 6.3x11
C797	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C800	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
C801	CCTT-J470J-0BZ	CAPACITOR CERAMIC	47PF J 50V SL T
	DIODES		
D1	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D401	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D402	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D403	DDTZ-G056B-SOS	DIODE ZENER	MTZJ5.6B 5.45-5.73 DO34
D404	DDTZ-G100B-SO0	DIODE ZENER	MTZ10B 9.41-9.90 DO40
D405	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D406	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D407	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D408	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D409	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D410	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D411	DDTZ-G043B-SO0	DIODE ZENER	MTZ4.3B 4.17-4.43 DO40
D412	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D413	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D414	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D415	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D416	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D418	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D419	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D420	DDTZ-G062B-SOS	DIODE ZENER	MTZJ6.2B 5.96-6.27 DO34
D421	DDTZ-G062B-SOS	DIODE ZENER	MTZJ6.2B 5.96-6.27 DO34
D422	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D423	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D424	DDTZ-G300D-SO0	DIODE ZENER	MTZ30D 29.02-30.51 DO40
	INTEGRATED CIRCUITS		
IC401	ICDG-00260-S10	IC FUNCTION SELECTOR	LC7821 DIP30S
IC402	ICOP-03120-SG0	IC DUAL OP AMP	NJM4580D
IC403	ICOP-00131-SE0	IC DUAL OP AMP	KA4558C DIP8
IC404	ICLN-03690-S10	IC BYPOLAR SWITCH	LC4966 DIP14
IC405	ICLN-03310-SG0	IC DOLBY	NJW-1103F QFP80
IC406	ICOP-03120-SG0	IC DUAL OP AMP	NJM4580D
IC407	ICOP-00131-SE0	IC DUAL OP AMP	KA4558C DIP8
IC408	ICOP-00131-SE0	IC DUAL OP AMP	KA4558C DIP8

Ref. No.	Part No.	Description	
	INTEGRATED CIRCUITS		
IC412	ICLN-03590-S10	IC ANALOG FUNCTION	LC78213 DIP30
IC413	ICLN-03870-SD0	IC	TC9482N
IC414	ICOP-03120-SG0	IC DUAL OP AMP	NJM4580D
IC415	ICDG-02410-S30	IC HIGH TONE CONTROL	TC9184AP DIP16
IC416	ICOP-00131-SE0	IC DUAL OP AMP	KA4558C DIP8
IC420	ICLN-03690-S10	IC BYPOLAR SWITCH	LC4966 DIP14
IC421	ICOP-03120-SG0	IC DUAL OP AMP	NJM4580D
IC423	ICRG-00061-SE0	IC REGULATOR	KA7815 15V 3mm TO-22
IC424	ICRG-00251-SE0	IC REGULATOR	KA7915 15V 3mm TO-22
IC425	ICRG-00043-SE0	IC REGULATOR	KA7805 5V 3mm TO-22
	RESISTORS		
R1	RMOE-H391J-020	RESISTOR-METAL OXIDE	1W ERG-1SJ391E 390ohm T
R376	RCFT-E393J-000	RESISTOR-CARBON FILM	39Kohm 1/5W 5% T
R377	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R378	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R379	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R382	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R383	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R384	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R385	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R386	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R387	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R388	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R389	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R390	RCFT-E393J-000	RESISTOR-CARBON FILM	39Kohm 1/5W 5% T
R391	RCFT-E225J-000	RESISTOR-CARBON FILM	2.2Mohm 1/5W 5% T
R392	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R401	RCFT-E334J-000	RESISTOR-CARBON FILM	330Kohm 1/5W 5% T
R402	RCFT-E243J-000	RESISTOR-CARBON FILM	24Kohm 1/5W 5% T
R403	RCFT-E243J-000	RESISTOR-CARBON FILM	24Kohm 1/5W 5% T
R404	RCFT-E513J-000	RESISTOR-CARBON FILM	51Kohm 1/5W 5% T
R405	RCFT-E513J-000	RESISTOR-CARBON FILM	51Kohm 1/5W 5% T
R406	RCFT-E512J-000	RESISTOR-CARBON FILM	5.1Kohm 1/5W 5% T
R407	RCFT-E512J-000	RESISTOR-CARBON FILM	5.1Kohm 1/5W 5% T
R408	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R409	RCFT-E105J-000	RESISTOR-CARBON FILM	1Mohm 1/5W 5% T
R410	RCFT-E225J-000	RESISTOR-CARBON FILM	2.2Mohm 1/5W 5% T
R411	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R412	RCFT-E224J-000	RESISTOR-CARBON FILM	220Kohm 1/5W 5% T
R413	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R414	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R415	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R416	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R417	RCFT-E752J-000	RESISTOR-CARBON FILM	7.5Kohm 1/5W 5% T
R418	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R419	RCFT-E752J-000	RESISTOR-CARBON FILM	7.5Kohm 1/5W 5% T
R420	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R421	RCFT-E203J-000	RESISTOR-CARBON FILM	20Kohm 1/5W 5% T
R422	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R423	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R424	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R425	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R426	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R427	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R428	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R430	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R431	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R432	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R433	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T

Ref. No.	Part No.	Description	
	RESISTORS		
R434	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R435	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R437	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R439	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R440	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R441	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R442	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R443	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R444	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R445	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R446	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R447	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R448	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R449	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R450	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R451	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R452	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R453	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R462	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R463	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R464	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R465	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R466	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R467	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R468	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R469	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R472	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R473	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R475	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R476	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R477	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R478	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R479	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R480	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R486	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R487	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R488	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R489	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R490	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R491	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R492	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R493	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R494	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R495	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R496	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R497	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R498	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R499	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R500	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R501	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R502	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R503	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R504	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R505	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R506	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R507	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R508	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R509	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R510	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R511	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T

Ref. No.	Part No.	Description	
	RESISTORS		
R512	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R513	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R514	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R515	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R516	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R517	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R518	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R519	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R520	RCFT-E243J-000	RESISTOR-CARBON FILM	24Kohm 1/5W 5% T
R521	RCFT-E224J-000	RESISTOR-CARBON FILM	220Kohm 1/5W 5% T
R522	RCFT-E243J-000	RESISTOR-CARBON FILM	24Kohm 1/5W 5% T
R523	RCFT-E224J-000	RESISTOR-CARBON FILM	220Kohm 1/5W 5% T
R525	RCFT-F101J-010	RESISTOR-CARBON FILM	100ohm 1/4W 5% T
R526	RCFT-G221J-190	RESISTOR-CARBON FILM	220ohm 1/2W 5% 2.3x6.5
R527	RCFT-F102J-010	RESISTOR-CARBON FILM	1Kohm 1/4W 5% T
R528	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R540	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R541	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R542	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R549	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R550	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R562	RCFT-E363J-000	RESISTOR-CARBON FILM	36Kohm 1/5W 5% T
R563	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R564	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R565	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R566	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R567	RCFT-E243J-000	RESISTOR-CARBON FILM	24Kohm 1/5W 5% T
R568	RCFT-E470J-000	RESISTOR-CARBON FILM	47ohm 1/5W 5% T
R569	RCFT-F471J-010	RESISTOR-CARBON FILM	470ohm 1/4W 5% T
R570	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R571	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R572	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R573	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R574	RCFT-E624J-000	RESISTOR-CARBON FILM	620Kohm 1/5W 5% T
R575	RCFT-E624J-000	RESISTOR-CARBON FILM	620Kohm 1/5W 5% T
R578	RCFT-E183J-000	RESISTOR-CARBON FILM	18Kohm 1/5W 5% T
R579	RCFT-E183J-000	RESISTOR-CARBON FILM	18Kohm 1/5W 5% T
R580	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R581	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T
R584	RCFT-E132J-000	RESISTOR-CARBON FILM	1.3Kohm 1/5W 5% T
R585	RCFT-E132J-000	RESISTOR-CARBON FILM	1.3Kohm 1/5W 5% T
R588	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R589	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R590	RCFT-E362J-000	RESISTOR-CARBON FILM	3.6Kohm 1/5W 5% T
R591	RCFT-E362J-000	RESISTOR-CARBON FILM	3.6Kohm 1/5W 5% T
R592	RCFT-E100J-000	RESISTOR-CARBON FILM	10ohm 1/5W 5% T
R593	RCFT-E100J-000	RESISTOR-CARBON FILM	10ohm 1/5W 5% T
R594	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R595	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R596	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R597	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R598	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R680	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R681	RCFT-E243J-000	RESISTOR-CARBON FILM	24Kohm 1/5W 5% T
R683	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R684	RCFT-E243J-000	RESISTOR-CARBON FILM	24Kohm 1/5W 5% T
R685	RCFT-E224J-000	RESISTOR-CARBON FILM	220Kohm 1/5W 5% T
R687	RCFT-E224J-000	RESISTOR-CARBON FILM	220Kohm 1/5W 5% T
R689	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R690	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T

Ref. No.	Part No.	Description	
	RESISTORS		
R691	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R692	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R693	RCFT-E242J-000	RESISTOR-CARBON FILM	2.4Kohm 1/5W 5% T
R694	RCFT-E242J-000	RESISTOR-CARBON FILM	2.4Kohm 1/5W 5% T
R695	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R696	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R697	RCFT-G100J-190	RESISTOR-CARBON FILM	10ohm 1/2W 5% 2.3x6.5
R698	RCFT-G100J-190	RESISTOR-CARBON FILM	10ohm 1/2W 5% 2.3x6.5
R699	RCFT-G470J-190	RESISTOR-CARBON FILM	47ohm 1/2W 5% 2.3x6.5
R717	RMOT-H150J-1L0	RESISTOR-METAL OXIDE	15ohm 1W 5% 3x9 RSS1YV
R718	RMOT-H150J-1L0	RESISTOR-METAL OXIDE	15ohm 1W 5% 3x9 RSS1YV
R719	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R720	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T
R721	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T
R722	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R723	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R724	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R725	RMOH-H330J-100	RESISTOR-METAL OXIDE	PR01 1W 33ohm 5% R-SHAPE
R726	RCFT-F4R7J-010	RESISTOR-CARBON FILM	4.7ohm 1/4W 5% T
R728	RCFT-E1R0J-000	RESISTOR-CARBON FILM	1ohm 1/5W 5% T
R729	RCFT-E1R0J-000	RESISTOR-CARBON FILM	1ohm 1/5W 5% T
R750	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R751	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R752	RCFT-G470J-190	RESISTOR-CARBON FILM	47ohm 1/2W 5% 2.3x6.5
R753	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R754	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
R755	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T
R756	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R757	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R758	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R761	RCFT-E225J-000	RESISTOR-CARBON FILM	2.2Mohm 1/5W 5% T
R762	RCFT-F470J-010	RESISTOR-CARBON FILM	47ohm 1/4W 5% T
R763	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T
R765	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R766	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R767	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R768	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R769	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
R770	RCFT-E122J-000	RESISTOR-CARBON FILM	1.2Kohm 1/5W 5% T
R777	RCFT-F100J-010	RESISTOR-CARBON FILM	10ohm 1/4W 5% T
R778	RCFT-E752J-000	RESISTOR-CARBON FILM	7.5Kohm 1/5W 5% T
R779	RCFT-E752J-000	RESISTOR-CARBON FILM	7.5Kohm 1/5W 5% T
R780	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R781	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R782	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R783	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R785	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R786	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R787	RCFT-F470J-010	RESISTOR-CARBON FILM	47ohm 1/4W 5% T
R796	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T
	TRANSISTORS		
Q401	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q402	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q403	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q404	TRTC-0016G-SD0	TRANSISTOR N-H FREQ	KTC3198-GR TO92
Q405	TRTC-0016G-SD0	TRANSISTOR N-H FREQ	KTC3198-GR TO92
Q406	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q407	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q408	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M

Ref. No.	Part No.	Description	
	TRANSISTORS		
Q416	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q417	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q418	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q419	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q420	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q421	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q422	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q423	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q424	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q425	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q426	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q427	TRTC-0039Y-SD0	TRANSISTOR N-H FREQ	KTC3205-Y TO92L
Q428	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q429	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q430	TRTC-0039Y-SD0	TRANSISTOR N-H FREQ	KTC3205-Y TO92L
Q431	TRTA-0012Y-SD0	TRANSISTOR P-H FREQ	KTA1273-Y TO92L
Q432	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
Q433	TRTA-0012Y-SD0	TRANSISTOR P-H FREQ	KTA1273-Y TO92L
Q434	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	MISCELLANEOUS		
CN1	KNCW-00760-LT0	CONNECTOR-WAFER	8370-211 1.25mm TOP 21P
CN2	KNCW-01520-ES9	CONNECTOR-WAFER	35336-1410 20MM 14P
CN8	KNCW-00240-8T9	CONNECTOR-WAFER	53014-08 2.0mm WHT
CW1	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02
J4	KNCW-00760-IT0	CONNECTOR-WAFER	8370-181 1.25mm TOP 18P
J5	KNCW-00760-IT0	CONNECTOR-WAFER	8370-181 1.25mm TOP 18P
J6	KNCW-00140-9TM	CONNECTOR-WAFER	5267-09A 2.5mm MILK
J6	KNCW-00760-LT0	CONNECTOR-WAFER	8370-211 1.25mm TOP 21P
J7	KNCW-00240-9T9	CONNECTOR-WAFER	53014-09 2.0mm WHT
J8	KNCW-00240-7T9	CONNECTOR-WAFER	53014-07 2.0mm WHT
X401	KTRE-00091-040	RESONATOR	CST4.00MGW-TF01 T05
	MEAC-08215-004	RADIATOR-TR	
	MPAC-03810-004	TERMINAL-GND	ET-HD T0.3
FC7	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
FC8	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
FC9	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
FC10	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
FC11	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
FC12	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
FC13	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
FC14	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
	MPAC-16700-004	PLATE-SHIELD	SPTE T0.3
PCB1	PCSF-05170-11B	PCB-SINGLE	A1F-517 247x247x1.
	SKAO-00210-C50	AC OUTLET	S2-763T-214SJ
JK1	SKRC-00420-061	SOCKET-RCA	JK0600460N
JK2	SKRC-00300-040	SOCKET-RCA	JK0400910N 4P
JK40	SKRC-00650-01P	SOCKET-RCA	JC010126AG
JK403	SKRC-00411-061	SOCKET-RCA	JK0600469N
J9	U408-2O835-250	WIRE-ASS'Y	UL1533#28 RED-350 4P
J10	U408-2O827-250	WIRE-ASS'Y	UL1533#28 RED-270 4P
	POWER AMP BLOCK		
	ASS'Y-MECHANISM		
	MISCELLANEOUS		
	AJAF-16520-014	ASS'Y-FOOT	F40-POWER (ABS+RUBBER2
F1	FGFB-S2502-837	FUSE GLASS	2.5A 250V 5x20 V/S/B T
AC-CORD1	KDAC-0562F-AA0	CORD-AC	KKP419C,KLCE-2F CORE&TUB
	MAAF-16360-014	LENS-POWER	F40-POWER PMMA 60N
	MEAC-04930-002	RADIATOR-MAIN	A6063 T-5

Ref. No.	Part No.	Description	
	MISCELLANEOUS		
	MJAF-06310-011	PANEL-FRONT	F40-POWER HI-PS BLACK
	MJAF-16060-014	KNOB-SPEAKER	F40-POWER ABS-720
	MJAG-00280-003	CORD-BUSH	NIFCO
	MJAG-04540-004	CABLE-TIE-L80	*
	MMAC-15650-004	SCREW-RADIATOR	
	MPAC-04800-013	CHASSIS-BACK	F40-POWER SECC T0.8
	MPAC-04830-003	CHASSIS-SIDE	SECC T1.0
	MPAC-04910-012	CHASSIS-TOP	F40-POWER VCM T0.8
	MPAC-06190-001	CHASSIS-BOTTOM	US COATING T1.0
	MPAC-06710-004	CLAMP-WIRE-L52	*
	MPAC-16220-004	BRACKET-RADIATOR(S)	US COATING T1.0
	MPAC-16340-004	BRACKET-RADIATOR(F)	SECC T1.0
	MPAC-16350-004	BRACKET-RADIATOR(R)	SECC T1.0
P/T	PTAN-03700-YJV	TRANSFORMER-POWER	A86-370Y-V 230V 50Hz
POSSTOR1	VSPO-00010-100	POSISTOR	P42T8D100BW23
	XSTB-30080-ZB4	SCREW-TAPPING	BHT2T 3x8 FE-ZB
	XSTB-30080-ZY4	SCREW-TAPPING	BHT2T 3x8 FE-ZY
	XSTB-30100-ZB4	SCREW-TAPPING	BHT2T 3x10 FE-ZB
	XSTB-30100-ZY4	SCREW-TAPPING	BHT2T 3x10 FE-ZY
	XSTB-40080-ZY4	SCREW-TAPPING	BHT2T 4x8 FE-ZY
	XSTF-30080-ZY4	SCREW-TAPPING	FHT2T 3x8 FE-ZY
	XSTS-30080-ZY4	SCREW-TAPPING	PHWT2T 3x8 FE-ZY
	YGAP-14820-014	SLEEVE PACKING	F40-POWER (SW-1)
	YSAP-12120-002	CUSHION L	(EPS)
	YSAP-12130-002	CUSHION R	(EPS)
	YVAP-13321-ZZ4	TOLON-SHEET	600x1200 0.5t
	ASS'Y-MAIN PCB		
	CAPACITORS		
C1	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C2	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C3	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C4	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C5	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13.
C6	CFMT-S104K-GI0	CAPACITOR F/POLYESTR	0.1uF K 250V 9.5x11 TL
C7	CFMT-S104K-GI0	CAPACITOR F/POLYESTR	0.1uF K 250V 9.5x11 TL
C8	CFMT-S104K-GI0	CAPACITOR F/POLYESTR	0.1uF K 250V 9.5x11 TL
C9	CEEZ-J822M-RT1	CAPACITOR E/ALUMINUM	8200uF M 50V 30x40 SMH
C10	CEEZ-J822M-RT1	CAPACITOR E/ALUMINUM	8200uF M 50V 30x40 SMH
C11	CFMT-S104K-GI0	CAPACITOR F/POLYESTR	0.1uF K 250V 9.5x11 TL
C12	CFMT-S104K-GI0	CAPACITOR F/POLYESTR	0.1uF K 250V 9.5x11 TL
C13	CACS-S472M-180	CAPACITOR AC	DE7150 F472MVA1 250V BS4
C14	CEET-C471M-FI1	CAPACITOR E/ALUMINUM	470uF M 6.3V 8x11.5 U
C15	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11
C16	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C17	CEET-J330M-DI0	CAPACITOR E/ALUMINUM	33uF M 50V 6.3x11
C18	CACS-S472M-180	CAPACITOR AC	DE7150 F472MVA1 250V BS4
C19	CEET-J220M-CI0	CAPACITOR E/ALUMINUM	22uF M 50V 5x11
C21	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C22	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C23	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C24	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C25	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C26	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C27	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C28	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C29	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C30	CCCT-J222K-0DB	CAPACITOR CERAMIC	2200PF K 50V B T
C101	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C102	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11

Ref. No.	Part No.	Description	
	CAPACITORS		
C103	CCTT-J680J-0FC	CAPACITOR CERAMIC	68PF J 50V CH T
C104	CCTT-J680J-0FC	CAPACITOR CERAMIC	68PF J 50V CH T
C105	CCAT-J681K-AAB	CAPACITOR CERAMIC	680PF K 50V B T
C106	CCAT-J681K-AAB	CAPACITOR CERAMIC	680PF K 50V B T
C107	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11
C108	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11
C109	CEET-F220M-CI0	CAPACITOR E/ALUMINUM	22uF M 25V 5x11
C110	CEET-F220M-CI0	CAPACITOR E/ALUMINUM	22uF M 25V 5x11
C111	CEET-C471M-FI1	CAPACITOR E/ALUMINUM	470uF M 6.3V 8x11.5 U
C112	CEET-C471M-FI1	CAPACITOR E/ALUMINUM	470uF M 6.3V 8x11.5 U
C113	CCAT-J8R2K-AAZ	CAPACITOR CERAMIC	8.2PF K 50V SL T
C114	CCAT-J8R2K-AAZ	CAPACITOR CERAMIC	8.2PF K 50V SL T
C115	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C116	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C117	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C118	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C119	CCTT-J330J-0BZ	CAPACITOR CERAMIC	33PF J 50V SL T
C120	CCTT-J330J-0BZ	CAPACITOR CERAMIC	33PF J 50V SL T
C121	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C122	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C123	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C124	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C125	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C126	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C127	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C128	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C129	CCTT-J680J-0FC	CAPACITOR CERAMIC	68PF J 50V CH T
C130	CCTT-J680J-0FC	CAPACITOR CERAMIC	68PF J 50V CH T
C131	CCAT-J681K-AAB	CAPACITOR CERAMIC	680PF K 50V B T
C132	CCAT-J681K-AAB	CAPACITOR CERAMIC	680PF K 50V B T
C133	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11
C134	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11
C135	CEET-F220M-CI0	CAPACITOR E/ALUMINUM	22uF M 25V 5x11
C136	CEET-F220M-CI0	CAPACITOR E/ALUMINUM	22uF M 25V 5x11
C137	CEET-C471M-FI1	CAPACITOR E/ALUMINUM	470uF M 6.3V 8x11.5 U
C138	CEET-C471M-FI1	CAPACITOR E/ALUMINUM	470uF M 6.3V 8x11.5 U
C139	CCAT-J8R2K-AAZ	CAPACITOR CERAMIC	8.2PF K 50V SL T
C140	CCAT-J8R2K-AAZ	CAPACITOR CERAMIC	8.2PF K 50V SL T
C141	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C142	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C143	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C144	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C145	CCTT-J330J-0BZ	CAPACITOR CERAMIC	33PF J 50V SL T
C146	CCTT-J330J-0BZ	CAPACITOR CERAMIC	33PF J 50V SL T
C147	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C148	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C149	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C150	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C151	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C152	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C153	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11
C154	CCTT-J680J-0FC	CAPACITOR CERAMIC	68PF J 50V CH T
C155	CCAT-J681K-AAB	CAPACITOR CERAMIC	680PF K 50V B T
C156	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11
C157	CEET-F220M-CI0	CAPACITOR E/ALUMINUM	22uF M 25V 5x11
C158	CEET-C471M-FI1	CAPACITOR E/ALUMINUM	470uF M 6.3V 8x11.5 U
C159	CCAT-J8R2K-AAZ	CAPACITOR CERAMIC	8.2PF K 50V SL T
C160	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C161	CEET-J331M-HL1	CAPACITOR E/ALUMINUM	330uF M 50V 10x16 SHL
C162	CCTT-J330J-0BZ	CAPACITOR CERAMIC	33PF J 50V SL T

Ref. No.	Part No.	Description	
	CAPACITORS		
C163	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C164	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11
C165	CEET-J100M-CI0	CAPACITOR E/ALUMINUM	10uF M 50V 5x11
C168	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
	DIODES		
D1	DDMR-00230-T10	DIODE-RECTIFIER	GP60-04F(400V 6A)
D2	DDMR-00230-T10	DIODE-RECTIFIER	GP60-04F(400V 6A)
D3	DDMR-00230-T10	DIODE-RECTIFIER	GP60-04F(400V 6A)
D4	DDMR-00230-T10	DIODE-RECTIFIER	GP60-04F(400V 6A)
D5	DDTZ-G200C-SO0	DIODE ZENER	MTZ20C 19.23-20.22 DO40
D6	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D7	DDTZ-G091B-SO0	DIODE ZENER	MTZ9.1B 9.01 DO40
D8	DDTZ-G051B-SOS	DIODE ZENER	MTZJ5.1B 4.94-5.20 DO34
D9	DDTZ-G150C-SO0	DIODE ZENER	MTZ15C 14.35-15.09 DO40
D10	DDTZ-G150C-SO0	DIODE ZENER	MTZ15C 14.35-15.09 DO40
D11	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D12	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D13	DDTZ-G180C-SO0	DIODE ZENER	MTZ18C 17.42-18.33 DO40
D14	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm)
D101	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D102	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D103	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D104	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D105	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D106	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D107	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D108	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D109	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
D110	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40
LED1	DPLT-00860-GG5	DOT-LED	LTL-307G GRN R5
	INTEGRATED CIRCUITS		
U1	ICRG-00061-SE0	IC REGULATOR	KA7815 15V 3mm TO-22
	COILS		
L1	KIBK-00190-E40	COIL-AUDIO CHOCK	0.7uH COIL-CHOCK
L2	KIBK-00190-E40	COIL-AUDIO CHOCK	0.7uH COIL-CHOCK
L3	KIBK-00190-E40	COIL-AUDIO CHOCK	0.7uH COIL-CHOCK
L4	KIBK-00190-E40	COIL-AUDIO CHOCK	0.7uH COIL-CHOCK
L5	KIBK-00190-E40	COIL-AUDIO CHOCK	0.7uH COIL-CHOCK
	TRANSISTORS		
Q119	TRSC-01680-SB0	TRANSISTOR N-H FREQ	2SC4137 TO-126FP
Q120	TRSC-01680-SB0	TRANSISTOR N-H FREQ	2SC4137 TO-126FP
Q125	TRSC-01860-SD0	TRANSISTOR N-H FREQ	KTC5197 TO-3P(N)
Q126	TRSC-01860-SD0	TRANSISTOR N-H FREQ	KTC5197 TO-3P(N)
Q127	TRSA-01720-SD0	TRANSISTOR P-H FREQ	KTA1940 TO-3P(N)
Q128	TRSA-01720-SD0	TRANSISTOR P-H FREQ	KTA1940 TO-3P(N)
Q149	TRSC-01680-SB0	TRANSISTOR N-H FREQ	2SC4137 TO-126FP
Q150	TRSC-01680-SB0	TRANSISTOR N-H FREQ	2SC4137 TO-126FP
Q155	TRSC-01860-SD0	TRANSISTOR N-H FREQ	KTC5197 TO-3P(N)
Q156	TRSC-01860-SD0	TRANSISTOR N-H FREQ	KTC5197 TO-3P(N)
Q157	TRSA-01720-SD0	TRANSISTOR P-H FREQ	KTA1940 TO-3P(N)
Q158	TRSA-01720-SD0	TRANSISTOR P-H FREQ	KTA1940 TO-3P(N)
Q170	TRSC-01680-SB0	TRANSISTOR N-H FREQ	2SC4137 TO-126FP
Q173	TRSC-01860-SD0	TRANSISTOR N-H FREQ	KTC5197 TO-3P(N)
Q174	TRSA-01720-SD0	TRANSISTOR P-H FREQ	KTA1940 TO-3P(N)

Ref. No.	Part No.	Description	
	RESISTORS		
R1	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R2	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R3	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R4	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R5	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R6	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R7	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R8	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R9	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R10	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T
R16	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R17	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R18	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R19	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R20	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R21	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T
R22	RCFT-E391J-000	RESISTOR-CARBON FILM	390ohm 1/5W 5% T
R23	RCFT-E683J-000	RESISTOR-CARBON FILM	68Kohm 1/5W 5% T
R24	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
R25	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T
R26	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R27	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R28	RCFT-E391J-000	RESISTOR-CARBON FILM	390ohm 1/5W 5% T
R29	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R30	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R31	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R32	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R33	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R34	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R35	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R36	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T
R37	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R39	RCFT-E753J-000	RESISTOR-CARBON FILM	75Kohm 1/5W 5% T
R101	RCFT-E331J-000	RESISTOR-CARBON FILM	330ohm 1/5W 5% T
R102	RCFT-E331J-000	RESISTOR-CARBON FILM	330ohm 1/5W 5% T
R103	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R104	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R105	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R106	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R107	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R108	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R109	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R110	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R111	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R112	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R113	RCFT-E680J-000	RESISTOR-CARBON FILM	68ohm 1/5W 5% T
R114	RCFT-E680J-000	RESISTOR-CARBON FILM	68ohm 1/5W 5% T
R115	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R116	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R117	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R118	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R119	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R120	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R121	RCFT-E151J-000	RESISTOR-CARBON FILM	150ohm 1/5W 5% T
R122	RCFT-E151J-000	RESISTOR-CARBON FILM	150ohm 1/5W 5% T
R123	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R124	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R125	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R126	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R127	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T

Ref. No.	Part No.	Description	
	RESISTORS		
R128	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R129	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R130	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R131	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R132	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R133	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R134	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R135	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R136	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R137	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R138	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R139	RCFT-E432J-000	RESISTOR-CARBON FILM	4.3Kohm 1/5W 5% T
R140	RCFT-E432J-000	RESISTOR-CARBON FILM	4.3Kohm 1/5W 5% T
R141	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R142	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R143	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R144	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R145	RCFT-E122J-000	RESISTOR-CARBON FILM	1.2Kohm 1/5W 5% T
R146	RCFT-E122J-000	RESISTOR-CARBON FILM	1.2Kohm 1/5W 5% T
R147	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R148	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R149	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R150	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R151	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R152	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R153	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R154	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R159	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R160	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R166	RCFT-E432J-000	RESISTOR-CARBON FILM	4.3Kohm 1/5W 5% T
R171	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R172	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R173	RCFT-E202J-000	RESISTOR-CARBON FILM	2Kohm 1/5W 5% T
R174	RCFT-E202J-000	RESISTOR-CARBON FILM	2Kohm 1/5W 5% T
R175	RCFT-E911J-000	RESISTOR-CARBON FILM	910ohm 1/5W 5% T
R176	RCFT-E911J-000	RESISTOR-CARBON FILM	910ohm 1/5W 5% T
R177	RCFT-E682J-000	RESISTOR-CARBON FILM	6.8Kohm 1/5W 5% T
R178	RCFT-E682J-000	RESISTOR-CARBON FILM	6.8Kohm 1/5W 5% T
R181	RCFT-E331J-000	RESISTOR-CARBON FILM	330ohm 1/5W 5% T
R182	RCFT-E331J-000	RESISTOR-CARBON FILM	330ohm 1/5W 5% T
R183	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R184	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R185	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R186	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R187	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R188	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R189	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R190	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R191	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R192	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R193	RCFT-E680J-000	RESISTOR-CARBON FILM	68ohm 1/5W 5% T
R194	RCFT-E680J-000	RESISTOR-CARBON FILM	68ohm 1/5W 5% T
R195	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R196	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R197	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R198	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R199	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R200	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R201	RCFT-E151J-000	RESISTOR-CARBON FILM	150ohm 1/5W 5% T
R202	RCFT-E151J-000	RESISTOR-CARBON FILM	150ohm 1/5W 5% T

Ref. No.	Part No.	Description	
	RESISTORS		
R203	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R204	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R205	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R206	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R207	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R208	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R209	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R210	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R211	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R212	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R213	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R214	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R215	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R216	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R217	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R218	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R219	RCFT-E432J-000	RESISTOR-CARBON FILM	4.3Kohm 1/5W 5% T
R221	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R222	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R223	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R224	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R225	RCFT-E122J-000	RESISTOR-CARBON FILM	1.2Kohm 1/5W 5% T
R226	RCFT-E122J-000	RESISTOR-CARBON FILM	1.2Kohm 1/5W 5% T
R227	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R228	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R229	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R230	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R231	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R232	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R233	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R234	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R239	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R240	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R251	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R252	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R253	RCFT-E202J-000	RESISTOR-CARBON FILM	2Kohm 1/5W 5% T
R254	RCFT-E202J-000	RESISTOR-CARBON FILM	2Kohm 1/5W 5% T
R255	RCFT-E911J-000	RESISTOR-CARBON FILM	910ohm 1/5W 5% T
R256	RCFT-E911J-000	RESISTOR-CARBON FILM	910ohm 1/5W 5% T
R257	RCFT-E682J-000	RESISTOR-CARBON FILM	6.8Kohm 1/5W 5% T
R258	RCFT-E682J-000	RESISTOR-CARBON FILM	6.8Kohm 1/5W 5% T
R261	RCFT-E331J-000	RESISTOR-CARBON FILM	330ohm 1/5W 5% T
R262	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R263	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R264	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R265	RCFT-E150J-000	RESISTOR-CARBON FILM	15ohm 1/5W 5% T
R266	RCFT-E751J-000	RESISTOR-CARBON FILM	750ohm 1/5W 5% T
R267	RCFT-E680J-000	RESISTOR-CARBON FILM	68ohm 1/5W 5% T
R268	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
R269	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R270	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T
R271	RCFT-E151J-000	RESISTOR-CARBON FILM	150ohm 1/5W 5% T
R272	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R273	RCFT-E333J-000	RESISTOR-CARBON FILM	33Kohm 1/5W 5% T
R274	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R275	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R276	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R277	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R278	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T
R279	RCFT-E561J-000	RESISTOR-CARBON FILM	560ohm 1/5W 5% T

Ref. No.	Part No.	Description	
	RESISTORS		
R280	RCFT-E432J-000	RESISTOR-CARBON FILM	4.3Kohm 1/5W 5% T
R281	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R282	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T
R283	RCFT-E122J-000	RESISTOR-CARBON FILM	1.2Kohm 1/5W 5% T
R284	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R285	RCFT-E821J-000	RESISTOR-CARBON FILM	820ohm 1/5W 5% T
R286	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R287	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R290	RCFT-E820J-000	RESISTOR-CARBON FILM	82ohm 1/5W 5% T
R296	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
R297	RCFT-E202J-000	RESISTOR-CARBON FILM	2Kohm 1/5W 5% T
R298	RCFT-E911J-000	RESISTOR-CARBON FILM	910ohm 1/5W 5% T
R299	RCFT-E682J-000	RESISTOR-CARBON FILM	6.8Kohm 1/5W 5% T
R301	RCFT-E334J-000	RESISTOR-CARBON FILM	330Kohm 1/5W 5% T
	MISCELLANEOUS		
CN1	KNCW-00380-FS0	CONNECTOR WAFER	CFG1115-0101 1.5mm 15P
CN2	KNCW-00140-ATM	CONNECTOR-WAFER	5267-10A 2.5mm MILK
CN3	KNCW-00240-CT9	CONNECTOR-WAFER	53014-12 2.0mm WHT
CN4	KNCW-00140-2TM	CONNECTOR-WAFER	5267-02A 2.5mm MILK
CN5	KNCW-00240-2T9	CONNECTOR-WAFER	53014-02 2.0mm WHT
CN6	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02
CN8	KNCW-00980-2S9	CONNECTOR-WAFER	JE202A-2T-2P
CN9	KNCW-00970-3T9	CONNECTOR-WAFER	JE202-1T-3P
CN10	KNCW-00140-9TM	CONNECTOR-WAFER	5267-09A 2.5mm MILK
CN11	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02
GND-TER1	MPAC-03810-004	TERMINAL-GND	ET-HD T0.3
FC1	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
FC2	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE
PCB1	PCSA-05180-11B	PCB-SINGLE	A1A-518 330x247x1.6t
RL1	ESRY-00290-124	RELAY	DG12D1-O(M)
	CDP BLOCK		
	ASS'Y-MECHANISM		
	MISCELLANEOUS		
	AJAF-16520-014	ASS'Y-FOOT	F40-POWER (ABS+RUBBER2T)
	DECD-00200-00F	MECHA CDP	CMS-FR3B (3CD)
	FGFB-S1001-837	FUSE GLASS	100mA 250V 50T 5x20
	KDAC-0562F-AA0	CORD-AC	KKP419C,KLCE-2F CORE&TUBE
	LLA3-16223-E10	CARD CABLE	2896 1.0x16Px223xCx
	MAAF-16360-014	LENS-POWER	F40-POWER PMMA 60N
	MAAF-16400-014	LENS-DIRECT	F40-CDP PMMA 60N
	MJAF-06300-011	PANEL-FRONT	F40-CDP HI-PS BLACK
	MJAF-08380-013	KNOB-OP/CL	F40-CDP ABS-720
	MJAF-08390-013	KNOB-FUNCTION(A)	F40-PRE AMP ABS-720
	MJAF-08400-013	KNOB-FUNCTION(B)	F40-PRE AMP ABS-720
	MJAF-08410-013	KNOB-DIRECT	F40-CDP ABS-720
	MJAF-08420-013	DOOR-CDP	F40-CDP ABS-720
	MJAF-16060-014	KNOB-SPEAKER	F40-POWER ABS-720
	MJAF-16390-004	JOINT-POWER	ABS-720
	MJAF-16410-014	FOOT	F40-PRE AMP ABS-720
	MJAG-00280-003	CORD-BUSH	NIFCO
	MJAG-04540-004	CABLE-TIE-L80	*
	MPAC-04790-013	CHASSIS-BACK	F40-CDP SECC T0.8
	MPAC-04810-003	BRACKET-CDP	SECC T1.0
	MPAC-04820-003	BRACKET-PCB	SECC T1.0
	MPAC-04920-012	CHASSIS-TOP	F40-PRE AMP VCM T0.8
	MPAC-06170-001	CHASSIS-BOTTOM	US COATING T1.0
	MPAC-06710-004	CLAMP-WIRE-L52	*
	MRAG-13210-004	CUSHION-A	(EVA 25*15*T4)

Ref. No.	Part No.	Description	
	MISCELLANEOUS		
	MRAG-13220-004	CUSHION-FOOT	(RUBBER 25*19.5*T2)
	PTAE-03560-YJV	TRANSFORMER-POWER	A48-356Y-V 230V 50Hz
	UA08-9M727-520	WIRE-ASS'Y	UL1007#26 WHT-270 10P
	U348-2A540-480	WIRE-ASS'Y	UL1617#22 RED-400 3P
	U508-4M742-250	WIRE-ASS'Y	UL1007#26 YEL-420 5P
	U608-5M735-520	WIRE-ASS'Y	UL1007#26 GRN-350 6P
	XSTB-30060-ZB4	SCREW-TAPPING	BHT2T 3x6 FE-ZB
	XSTB-30060-ZY4	SCREW-TAPPING	BHT2T 3x6 FE-ZY
	XSTB-30080-ZB4	SCREW-TAPPING	BHT2T 3x8 FE-ZB
	XSTB-30080-ZY4	SCREW-TAPPING	BHT2T 3x8 FE-ZY 1
	XSTB-30100-ZB4	SCREW-TAPPING	BHT2T 3x10 FE-ZB
	XSTB-30100-ZY4	SCREW-TAPPING	BHT2T 3x10 FE-ZY 2
	XSTB-40080-ZY8	SCREW-TAPPING	BHT3T 4x8 FE-ZY
	XSTW-30080-ZY4	SCREW-TAPPING	PH/WT2T 3x8 FE-ZY
	YGAP-14820-014	SLEEVE PACKING	F40-POWER (SW-1)
	YGAP-15230-004	ANGLE-PROTECTOR	54X50X640 3T
	YSAP-12120-002	CUSHION L	(EPS)
	YSAP-12130-002	CUSHION R	(EPS)
	YVAP-13321-014	TOLON-SHEET	FJ-656 600x1200 0.5t
	ASS'Y-MAIN PCB		
	CAPACITORS		
C801	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11 T
C803	CCCT-J122K-0BB	CAPACITOR CERAMIC	1200PF K 50V B T
C804	CCCT-J122K-0BB	CAPACITOR CERAMIC	1200PF K 50V B T
C805	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7 T
C807	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7 T
C809	CACS-S472M-180	CAPACITOR AC	DE7150 F472MVA1 250V BS415
C810	CEEC-F332M-LP1	CAPACITOR E/ALUMINUM	3300uF M 25V 16x25 C
C811	CEEC-F332M-LP1	CAPACITOR E/ALUMINUM	3300uF M 25V 16x25 C
C812	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C813	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C814	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C815	CEET-E222M-KL0	CAPACITOR E/ALUMINUM	2200uF M 16V 12.5x16 T
C816	CEET-F221M-FI1	CAPACITOR E/ALUMINUM	220uF M 25V 8x11.5 T
C817	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C818	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C819	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF M 10V 5x11 T
C820	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C821	CFMT-N473J-GK0	CAPACITOR F/POLYESTR	0.047uF J 100V 8.9x13. T
C822	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7 T
C823	CCTT-J330J-0DC	CAPACITOR CERAMIC	33PF J 50V CH T
C824	CCTT-J330J-0DC	CAPACITOR CERAMIC	33PF J 50V CH T
C825	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C826	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF M 10V 6.3x11 T
C827	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF M 10V 5x11 T
C831	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11 T
C832	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11 T
C833	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C834	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF M 10V 6.3x11 T
C835	CCCT-J103Z-0DF	CAPACITOR CERAMIC	0.01uF Z 50V F T
C836	CFMT-N152J-CJ0	CAPACITOR F/POLYESTR	0.0015uF J 100V 5.4x12 T
C837	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7 T
C838	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11 T
C839	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF M 10V 6.3x11 T
C840	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C841	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF M 10V 5x11 T
C842	CCCT-J223Z-0FF	CAPACITOR CERAMIC	0.022uF Z 50V F T
C843	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF M 10V 6.3x11 T
C844	CFMT-N333J-FK0	CAPACITOR F/POLYESTR	0.033uF J 100V 8.1x13 T

Ref. No.	Part No.	Description	
	CAPACITORS		
C845	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7 T
C846	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF M 10V 5x11 T
C847	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C848	CFMT-N272J-DJ0	CAPACITOR F/POLYESTR	0.0027uF J 100V 5.7x12 T
C849	CCTT-J391J-0FZ	CAPACITOR CERAMIC	390PF J 50V SL T
C850	CCTT-J151J-0DZ	CAPACITOR CERAMIC	150PF J 50V SL T
C851	CCTT-J391J-0FZ	CAPACITOR CERAMIC	390PF J 50V SL T
C852	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C853	CCTT-J151J-0DZ	CAPACITOR CERAMIC	150PF J 50V SL T
C854	CFMT-N272J-DJ0	CAPACITOR F/POLYESTR	0.0027uF J 100V 5.7x12 T
C855	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11 T
C856	CEET-J4R7M-CI0	CAPACITOR E/ALUMINUM	4.7uF M 50V 5x11 T
C857	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF M 10V 6.3x11 T
C858	CFMT-N333J-FK0	CAPACITOR F/POLYESTR	0.033uF J 100V 8.1x13 T
C859	CEET-JR47M-CI0	CAPACITOR E/ALUMINUM	0.47uF M 50V 5x11 T
C860	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14 T
C861	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14 T
C862	CEET-JR47M-CI0	CAPACITOR E/ALUMINUM	0.47uF M 50V 5x11 T
C863	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7 T
C865	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11 T
C866	CEET-J2R2M-CI0	CAPACITOR E/ALUMINUM	2.2uF M 50V 5x11 T
C867	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7 T
C868	CCTT-J391J-0FZ	CAPACITOR CERAMIC	390PF J 50V SL T
C869	CEET-JR10M-CI0	CAPACITOR E/ALUMINUM	0.1uF M 50V 5x11 T
C870	CFMT-N472J-DJ0	CAPACITOR F/POLYESTR	0.0047uF J 100V 5.8x12 T
C871	CFMT-N333J-FK0	CAPACITOR F/POLYESTR	0.033uF J 100V 8.1x13 T
C872	CFMT-N472J-DJ0	CAPACITOR F/POLYESTR	0.0047uF J 100V 5.8x12 T
C873	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7 T
C874	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14 T
C875	CFMT-N222J-CJ0	CAPACITOR F/POLYESTR	0.0022uF J 100V 5.5x12 T
C876	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14 T
C877	CFMT-N104J-JK0	CAPACITOR F/POLYESTR	0.10uF J 100V 12.1x14 T
C878	CFMT-N333J-FK0	CAPACITOR F/POLYESTR	0.033uF J 100V 8.1x13 T
C879	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11 T
C880	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C881	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF M 10V 5x11 T
C882	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C883	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF M 10V 6.3x11 T
C884	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF M 25V 5x11 T
C885	CCCT-J102K-0BB	CAPACITOR CERAMIC	1000PF K 50V B T
C886	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11 T
C887	CCTT-J6R0D-0BC	CAPACITOR CERAMIC	6PF D 50V CH T
C888	CFMT-N472J-DJ0	CAPACITOR F/POLYESTR	0.0047uF J 100V 5.8x12 T
C889	CFMT-N103J-DE0	CAPACITOR F/POLYESTR	0.01uF J 100V 6x7 T
C890	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11 T
C891	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C892	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C893	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C894	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C895	CEET-E101M-DI0	CAPACITOR E/ALUMINUM	100uF M 16V 6.3x11 T
C896	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C897	CCCT-J102K-0BB	CAPACITOR CERAMIC	1000PF K 50V B T
C898	CCCT-J102K-0BB	CAPACITOR CERAMIC	1000PF K 50V B T
C899	CCCT-J102K-0BB	CAPACITOR CERAMIC	1000PF K 50V B T
C900	CCCT-J102K-0BB	CAPACITOR CERAMIC	1000PF K 50V B T
C901	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C902	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C904	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T 2
C910	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11 T
C911	CEET-F221M-FI1	CAPACITOR E/ALUMINUM	220uF M 25V 8x11.5 T

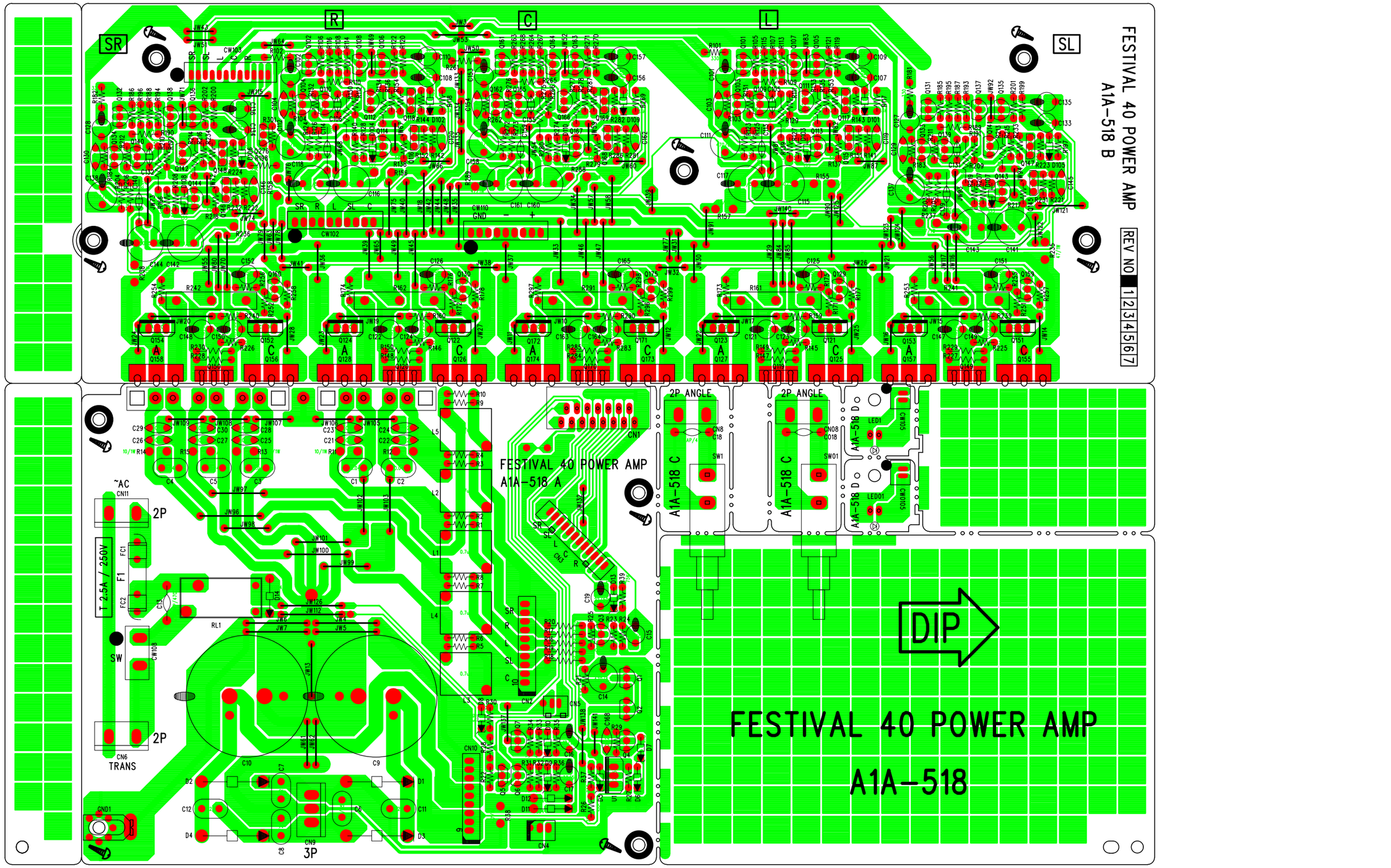
Ref. No.	Part No.	Description		
	CAPACITORS			
C912	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T	2
C913	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T	2
C914	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T	2
C915	CCCT-J104Z-0FF	CAPACITOR CERAMIC	0.1uF Z 50V F T	2
C916	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T	
C917	CCTT-J100D-0BC	CAPACITOR CERAMIC	10PF D 50V CH T	
C918	CCAT-F223Z-AAF	CAPACITOR CERAMIC	0.022uF Z 25V F T	
C919	CCAT-F223Z-AAF	CAPACITOR CERAMIC	0.022uF Z 25V F T	
C920	CCCT-J102K-0BB	CAPACITOR CERAMIC	1000PF K 50V B T	
C921	CCCT-J473Z-0JF	CAPACITOR CERAMIC	0.047uF Z 50V F T	
	DIODES			
D801	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm) T	
D802	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm) T	
D803	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm) T	
D804	DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm) T	
D805	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40 T	
D806	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40 T	
D808	DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40 T	
D901	DPLT-00840-MG3	DOT-LED	LTL-1CHG GRN R3.1	
D902	DPLT-00840-MG3	DOT-LED	LTL-1CHG GRN R3.1	
D903	DPLT-00840-MG3	DOT-LED	LTL-1CHG GRN R3.1	
D904	DPLT-00860-GG5	DOT-LED	LTL-307G GRN R5	
ZD801	DDTZ-G056B-SOS	DIODE ZENER	MTZJ5.6B 5.45-5.73 DO34 T	
ZD802	DDTZ-G030B-SOS	DIODE ZENER	MTZJ3.0B 3.010-3.220 DO34	
ZD803	DDTZ-G075B-SO0	DIODE ZENER	MTZ7.5B 7.07-7.45 D040 T	
	INTEGRATED CIRCUITS			
IC801	ICMP-03470-S40	IC U-COMPUTER	CXP84220-107S	
IC802	ICRG-00043-SE0	IC REGULATOR	KA7805 5V 3mm TO-220	
IC803	ICRG-00211-SE0	IC REGULATOR	KA7808 8V 3mm TO-220	
IC804	ICDG-02180-SE0	IC DSP & D/A	KS9286 QFP80	
IC805	ICLN-03470-SE0	IC RF AMP & SSP	KB9223 QFP80	
IC806	ICLN-01590-SE0	IC MOTOR CONTROL CDP	KA-9258D HSOP28	
IC807	ICLN-03780-SE0	IC MOTOR DRIVER	KA3082 SIP10	
IC808	ICLN-03780-SE0	IC MOTOR DRIVER	KA3082 SIP10	
IC809	ICRG-00261-SD0	IC REGULATOR	KIA7032P 3.2V TO-92	
	COILS			
L801	KI0T-4100K-003	COIL-INDUCTOR	10uH K LAL02 T	
L802	KI0T-4100K-003	COIL-INDUCTOR	10uH K LAL02 T	
L803	KI0T-4100K-003	COIL-INDUCTOR	10uH K LAL02 T	
	RESISTORS			
R801	RCFT-E225J-000	RESISTOR-CARBON FILM	2.2Mohm 1/5W 5% T	
R802	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T	
R804	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T	
R805	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R806	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T	
R807	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T	
R808	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T	
R809	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T	
R810	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T	
R811	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R812	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R813	RCFT-E273J-000	RESISTOR-CARBON FILM	27Kohm 1/5W 5% T	
R814	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T	
R815	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T	
R816	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R817	RCFT-E824J-000	RESISTOR-CARBON FILM	820Kohm 1/5W 5% T	

Ref. No.	Part No.	Description		
	RESISTORS			
R818	RCFT-E434J-000	RESISTOR-CARBON FILM	430Kohm 1/5W 5% T	
R819	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R820	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R821	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R822	RCFT-E273J-000	RESISTOR-CARBON FILM	27Kohm 1/5W 5% T	
R823	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R824	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R825	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R826	RCFT-E273J-000	RESISTOR-CARBON FILM	27Kohm 1/5W 5% T	
R827	RCFT-E184J-000	RESISTOR-CARBON FILM	180Kohm 1/5W 5% T	
R828	RCFT-E273J-000	RESISTOR-CARBON FILM	27Kohm 1/5W 5% T	
R829	RCFT-E273J-000	RESISTOR-CARBON FILM	27Kohm 1/5W 5% T	
R830	RCFT-E105J-000	RESISTOR-CARBON FILM	1Mohm 1/5W 5% T	
R831	RCFT-E822J-000	RESISTOR-CARBON FILM	8.2Kohm 1/5W 5% T	
R832	RCFT-E154J-000	RESISTOR-CARBON FILM	150Kohm 1/5W 5% T	
R833	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R834	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T	
R835	RCFT-E123J-000	RESISTOR-CARBON FILM	12Kohm 1/5W 5% T	
R836	RCFT-E683J-000	RESISTOR-CARBON FILM	68Kohm 1/5W 5% T	
R837	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T	
R838	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T	
R839	RCFT-E683J-000	RESISTOR-CARBON FILM	68Kohm 1/5W 5% T	
R840	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T	
R841	RCFT-E124J-000	RESISTOR-CARBON FILM	120Kohm 1/5W 5% T	
R842	RCFT-E124J-000	RESISTOR-CARBON FILM	120Kohm 1/5W 5% T	
R843	RCFT-E683J-000	RESISTOR-CARBON FILM	68Kohm 1/5W 5% T	
R844	RCFT-E154J-000	RESISTOR-CARBON FILM	150Kohm 1/5W 5% T	
R845	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R846	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T	
R847	RCFT-E154J-000	RESISTOR-CARBON FILM	150Kohm 1/5W 5% T	
R848	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T	
R849	RCFT-E682J-000	RESISTOR-CARBON FILM	6.8Kohm 1/5W 5% T	
R850	RCFT-E220J-000	RESISTOR-CARBON FILM	22ohm 1/5W 5% T	
R851	RCFT-E153J-000	RESISTOR-CARBON FILM	15Kohm 1/5W 5% T	
R852	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T	
R853	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T	
R854	RCFT-E100J-000	RESISTOR-CARBON FILM	10ohm 1/5W 5% T	
R855	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T	
R856	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T	
R857	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T	
R858	RCFT-E100J-000	RESISTOR-CARBON FILM	10ohm 1/5W 5% T	
R859	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T	
R860	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T	
R861	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T	
R862	RCFT-E134J-000	RESISTOR-CARBON FILM	130Kohm 1/5W 5% T	
R863	RCFT-E683J-000	RESISTOR-CARBON FILM	68Kohm 1/5W 5% T	
R864	RCFT-E683J-000	RESISTOR-CARBON FILM	68Kohm 1/5W 5% T	
R865	RCFT-E683J-000	RESISTOR-CARBON FILM	68Kohm 1/5W 5% T	
R866	RCFT-E683J-000	RESISTOR-CARBON FILM	68Kohm 1/5W 5% T	
R867	RCFT-E134J-000	RESISTOR-CARBON FILM	130Kohm 1/5W 5% T	
R868	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R869	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T	
R870	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T	
R871	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R872	RCFT-E123J-000	RESISTOR-CARBON FILM	12Kohm 1/5W 5% T	
R873	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T	
R874	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T	
R875	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T	
R876	RCFT-E472J-000	RESISTOR-CARBON FILM	4.7Kohm 1/5W 5% T	
R877	RCFT-G471J-190	RESISTOR-CARBON FILM	470ohm 1/2W 5% 2.3x6.5 T	

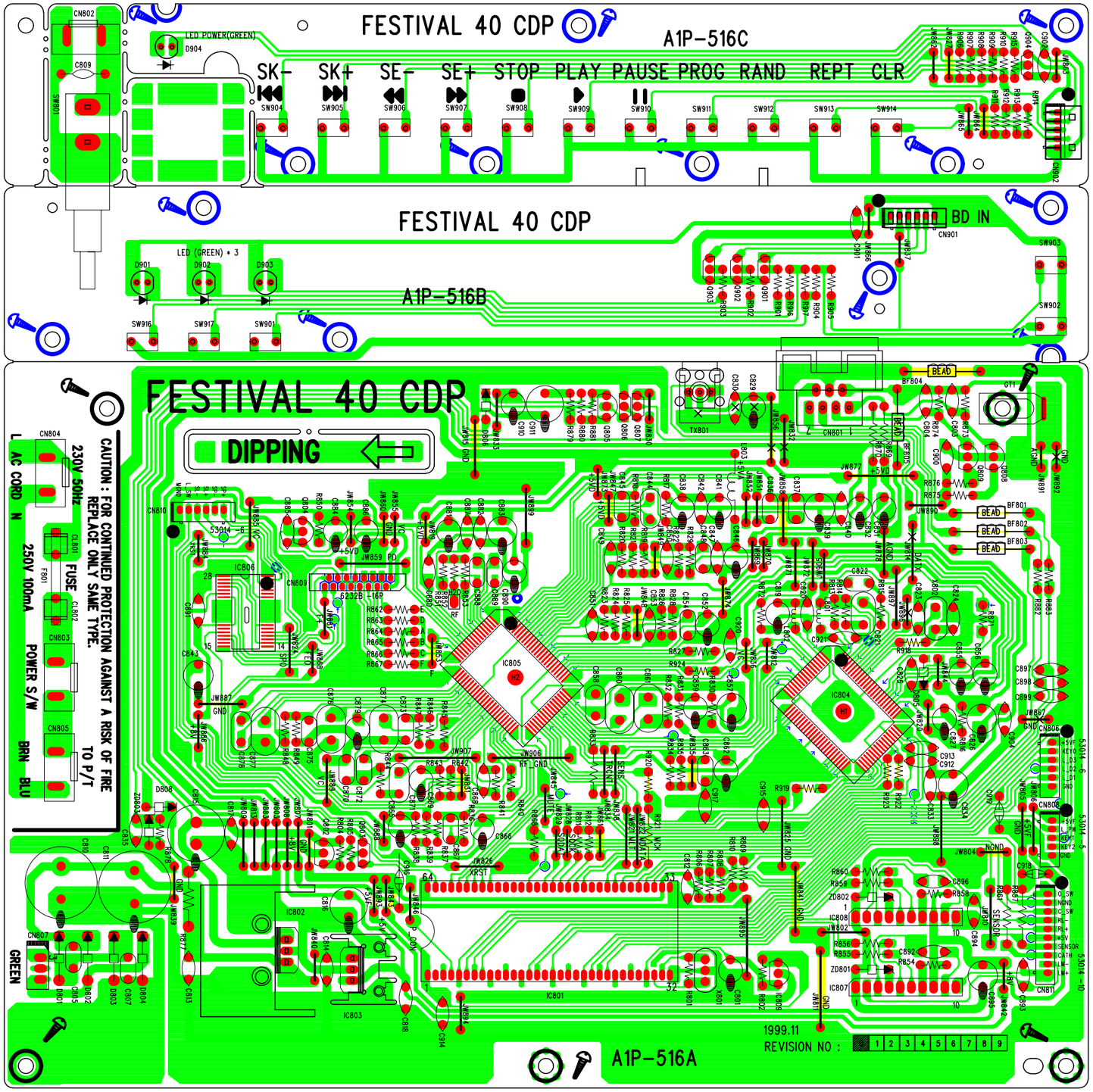
Ref. No.	Part No.	Description		
	RESISTORS			
R878	RCFT-E152J-000	RESISTOR-CARBON FILM	1.5Kohm 1/5W 5% T	
R879	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T	
R880	RCFT-E223J-000	RESISTOR-CARBON FILM	22Kohm 1/5W 5% T	
R881	RCFT-E474J-000	RESISTOR-CARBON FILM	470Kohm 1/5W 5% T	
R882	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R883	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R901	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T	
R902	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T	
R903	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T	
R904	RCFT-E242J-000	RESISTOR-CARBON FILM	2.4Kohm 1/5W 5% T	
R905	RCFT-E242J-000	RESISTOR-CARBON FILM	2.4Kohm 1/5W 5% T	
R906	RCFT-E103J-000	RESISTOR-CARBON FILM	10Kohm 1/5W 5% T	
R907	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R908	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T	
R909	RCFT-E242J-000	RESISTOR-CARBON FILM	2.4Kohm 1/5W 5% T	
R910	RCFT-E242J-000	RESISTOR-CARBON FILM	2.4Kohm 1/5W 5% T	
R911	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R912	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T	
R913	RCFT-E242J-000	RESISTOR-CARBON FILM	2.4Kohm 1/5W 5% T	
R914	RCFT-E242J-000	RESISTOR-CARBON FILM	2.4Kohm 1/5W 5% T	
R915	RCFT-E221J-000	RESISTOR-CARBON FILM	220ohm 1/5W 5% T	
R916	RCFT-E562J-000	RESISTOR-CARBON FILM	5.6Kohm 1/5W 5% T	1
R917	RCFT-E332J-000	RESISTOR-CARBON FILM	3.3Kohm 1/5W 5% T	
R918	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R919	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T	
R920	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T	
R921	RCFT-E331J-000	RESISTOR-CARBON FILM	330ohm 1/5W 5% T	
R922	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R923	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
R924	RCFT-E102J-000	RESISTOR-CARBON FILM	1Kohm 1/5W 5% T	1
	TRANSISTORS			
Q802	TRTA-0012Y-SD0	TRANSISTOR P-H FREQ	KTA1273-Y TO92L	
Q803	TRTC-0062E-SOS	TRANSISTOR N-H FREQ	DTC114E-S W/RESIST TO92M	
Q804	TRTA-0008G-SD0	TRANSISTOR P-H FREQ	KTA1266-GR TO92	
Q805	TRTA-0008G-SD0	TRANSISTOR P-H FREQ	KTA1266-GR TO92	
Q806	TRTC-0061E-SOS	TRANSISTOR N-H FREQ	DTC124E-S TO92M	
Q807	TRTA-0043E-SOS	TRANSISTOR P-H FREQ	DTA114E-S W/RESIST TO92M	
Q808	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92	
Q809	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92	
Q901	TRTC-0062E-SOS	TRANSISTOR N-H FREQ	DTC114E-S W/RESIST TO92M	
Q902	TRTC-0062E-SOS	TRANSISTOR N-H FREQ	DTC114E-S W/RESIST TO92M	
Q903	TRTC-0062E-SOS	TRANSISTOR N-H FREQ	DTC114E-S W/RESIST TO92M	
Q904	TRTC-0062E-SOS	TRANSISTOR N-H FREQ	DTC114E-S W/RESIST TO92M	
	MISCELLANEOUS			
CN801	KNCW-00380-7S0	CONNECTOR WAFER	CFG1107-0101 1.5mm 7P	
CN802	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02	
CN803	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02	
CN804	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02	
CN805	KNCW-00990-2T9	CONNECTOR-WAFER	JE202A-1T-02	
CN806	KNCW-00240-6T9	CONNECTOR-WAFER	53014-06 2.0mm WHT	
CN807	KNCW-00140-3TM	CONNECTOR-WAFER	5267-03A 2.5mm MILK	
CN808	KNCW-00240-5T9	CONNECTOR-WAFER	53014-05 2.0mm WHT	
CN809	KNCW-06271-GT9	CONNECTOR-FFC	6232B-16 16P 1mm	
CN810	KNCW-00240-6T9	CONNECTOR-WAFER	53014-06 2.0mm WHT	
CN811	KNCW-00240-AT9	CONNECTOR-WAFER	53014-10 2.0mm WHT	
CN902	KNCW-00160-5S9	CONNECTOR-WAFER	53015-0510 2mm-WHT	
BF801	KORB-00110-000	EMI BEAD FILTER	ATS3580l(MATERIAL:M3L)	
BF802	KORB-00110-000	EMI BEAD FILTER	ATS3580l(MATERIAL:M3L)	

Ref. No.	Part No.	Description		
	MISCELLANEOUS			
BF803	KORB-00110-000	EMI BEAD FILTER	ATS3580I(MATERIAL:M3L)	
BF804	KORB-00110-000	EMI BEAD FILTER	ATS3580I(MATERIAL:M3L)	
BF805	KORB-00110-000	EMI BEAD FILTER	ATS3580I(MATERIAL:M3L)	
SW801	SWPU-00591-059	SWITCH-PUSH	SDDLB13300	
SW901	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW902	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW903	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW904	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW905	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW906	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW907	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW908	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW909	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW910	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW911	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW912	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW913	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW914	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW916	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
SW917	SWTA-00220-060	SWITCH-TACT	SKHV10910(A) 12V 50mA	1
X801	KTRE-00220-080	RESONATOR	CST8.00MTW-TF01	
X802	KTAL-00074-169	CRYSTAL	HC-49/U 16.9344MHZ	
	MEAC-16380-004	RADIATOR-TR(A)	A6063 T-5	
	MEAC-16390-004	RADIATOR-TR(B)	A6063 T-5	
GT1	MPAC-03810-004	TERMINAL-GND	ET-HD T0.3	
CL801	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE	
CL802	MPAC-11620-004	FUSE CLIP	5.2Pi TAPPING TYPE	
PCB801	PCSP-05160-11B	PCB-SINGLE	A1P-516 247x247x1.6t	
CN901	U608-5M735-250	WIRE-ASS'Y	UL1007#26 GRN-350 6P	
	XSTB-30080-ZY4	SCREW-TAPPING	BHT2T 3x8 FE-ZY	

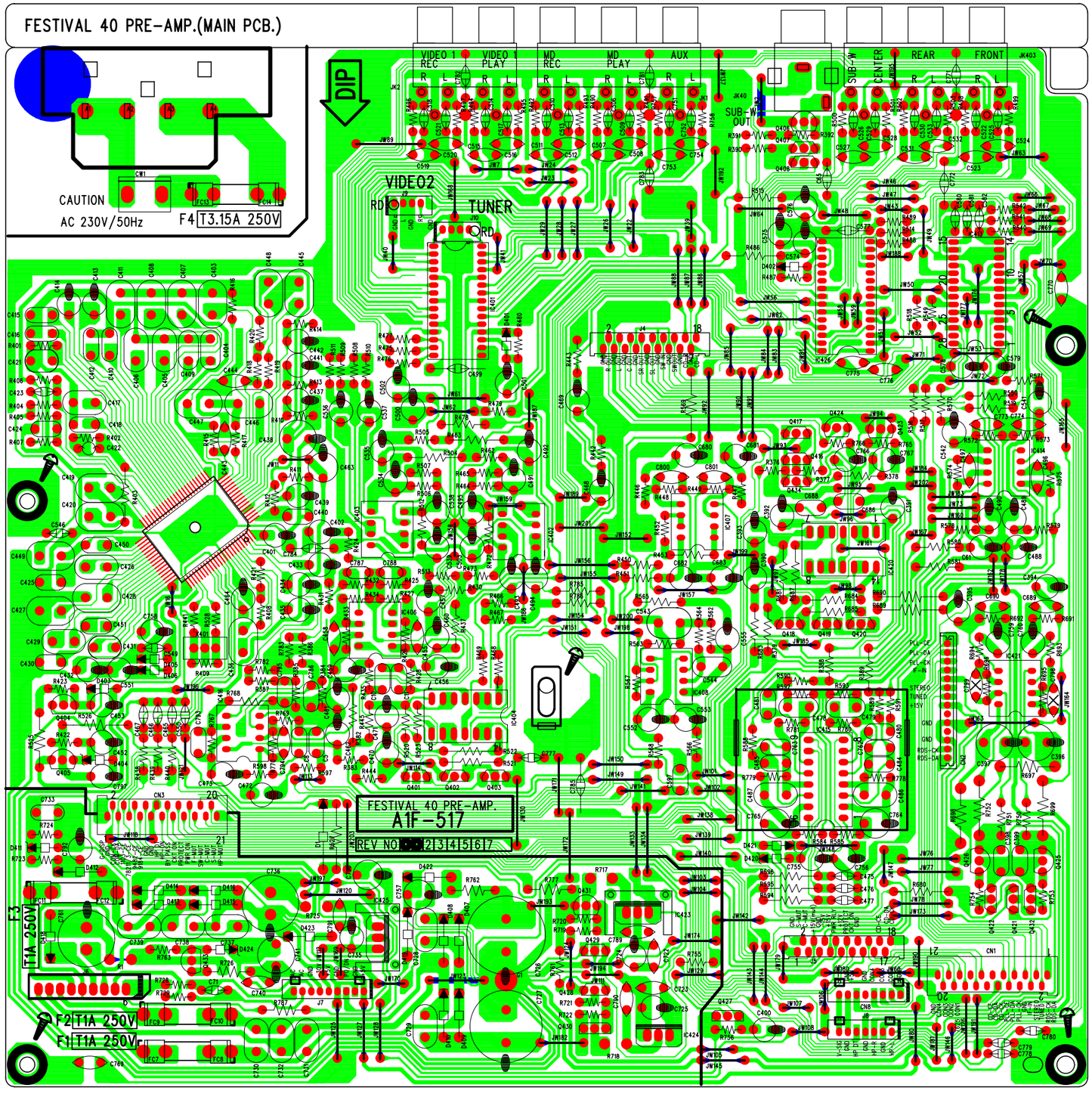
P. C. BOARD
POWER AMP



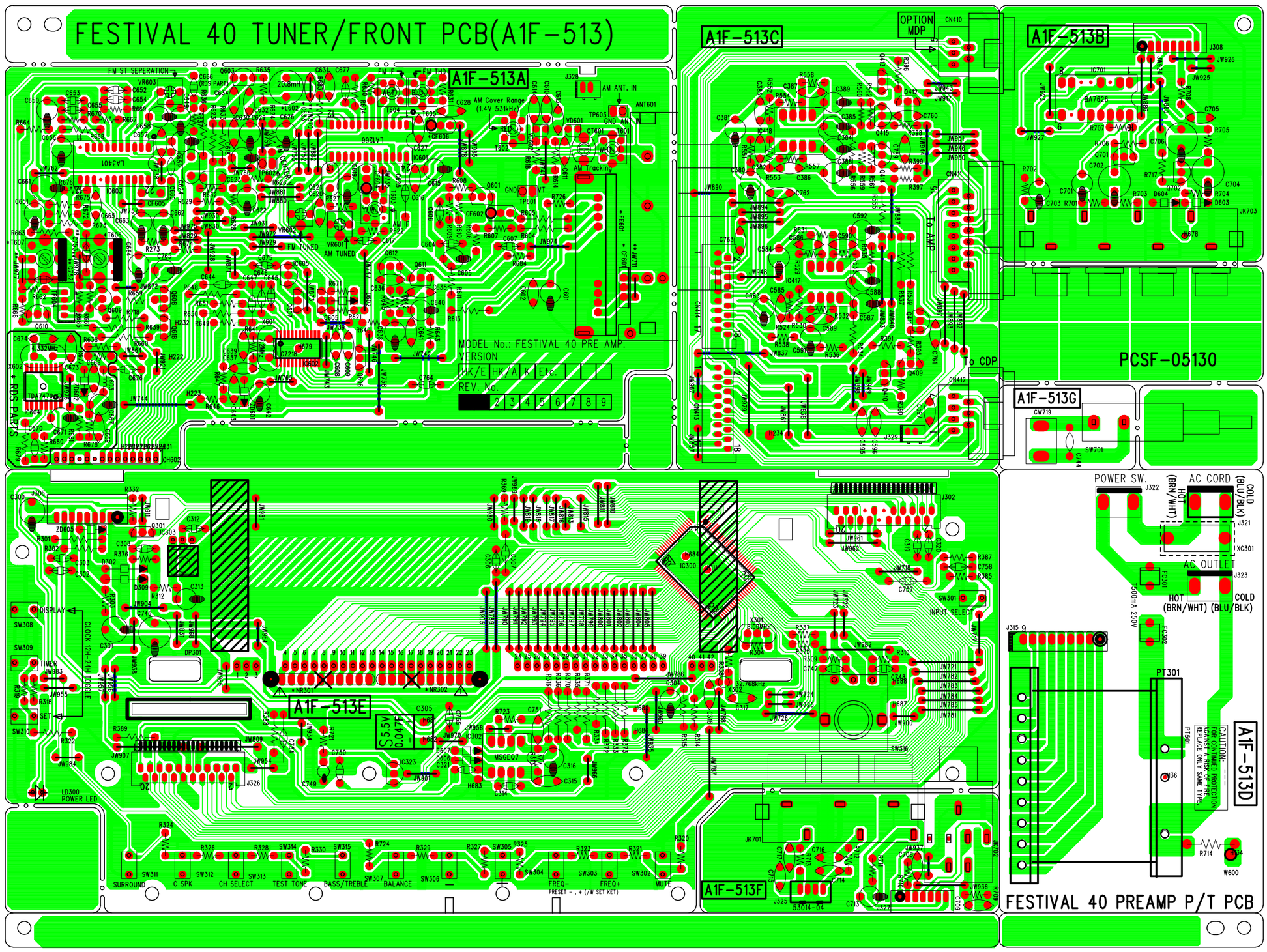
P.C.BOARD
CDP


FESTIVAL 40 CDP
A1P-516C
SK- SK+ SE- SE+ STOP PLAY PAUSE PROG RAND REPT CLR
FESTIVAL 40 CDP
A1P-516B
BD IN
FESTIVAL 40 CDP
DIPPING
CAUTION : FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY SAME TYPE.
AC CORD N
230V 50Hz
250V 100mA POWER S/W
FUSE
TO P/T
BRN BLU GREEN
A1P-516A
1999.11
REVISION NO :

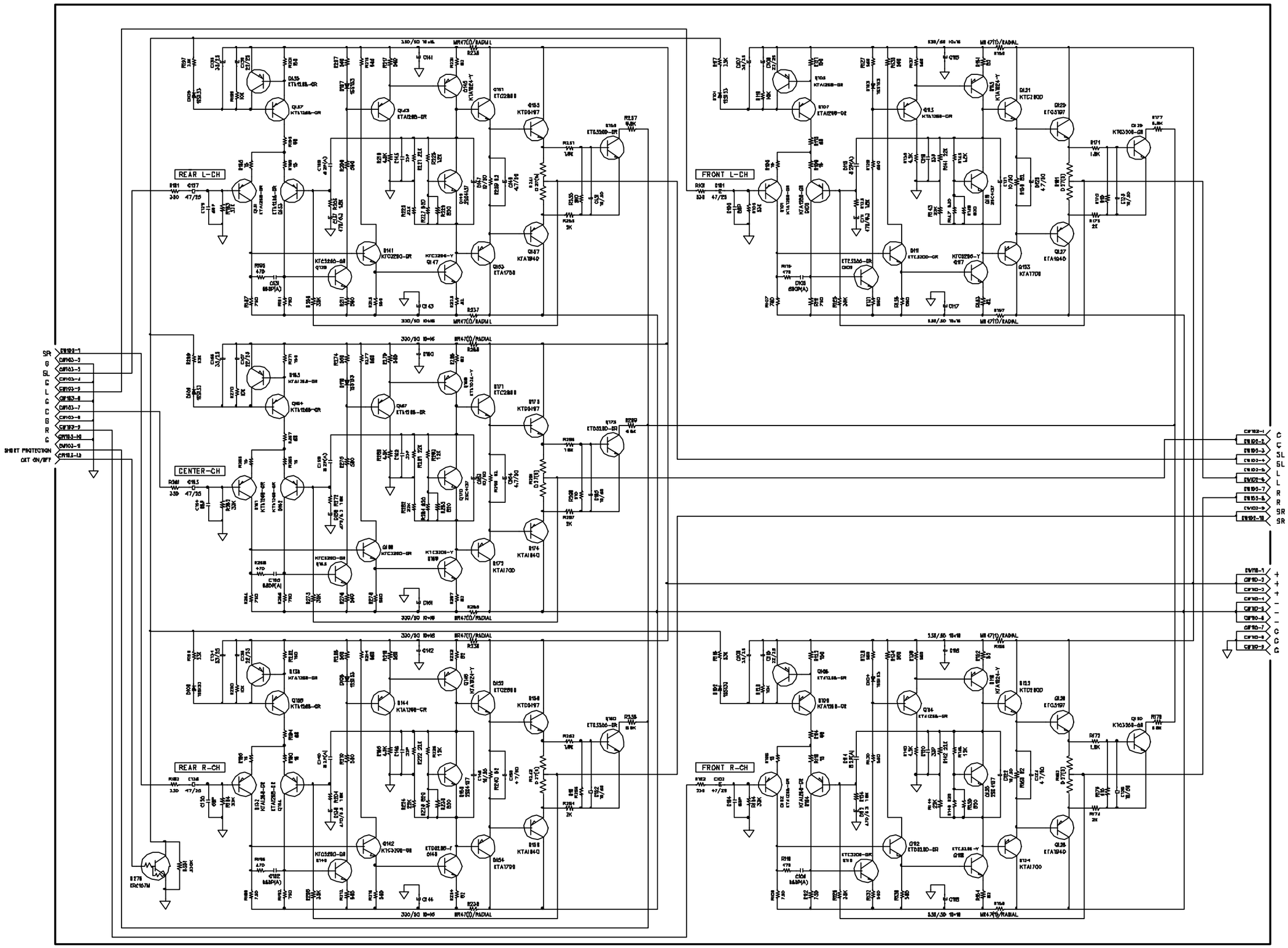
P. C. BOARD
PRE AMP



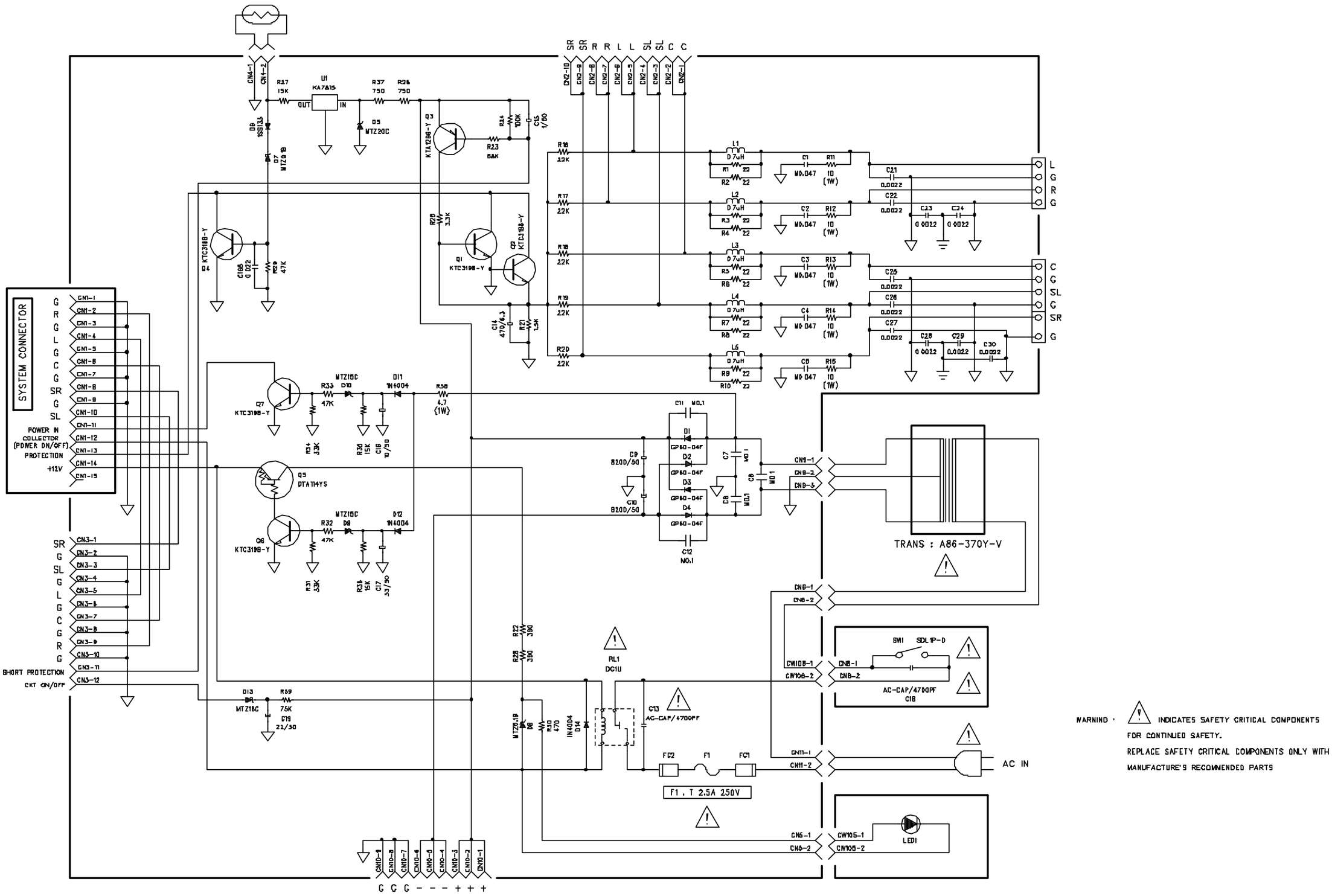
P. C. BOARD
TUNER/FRONT



SCHEMATIC DIAGRAM
POWER-AMP (AMP)



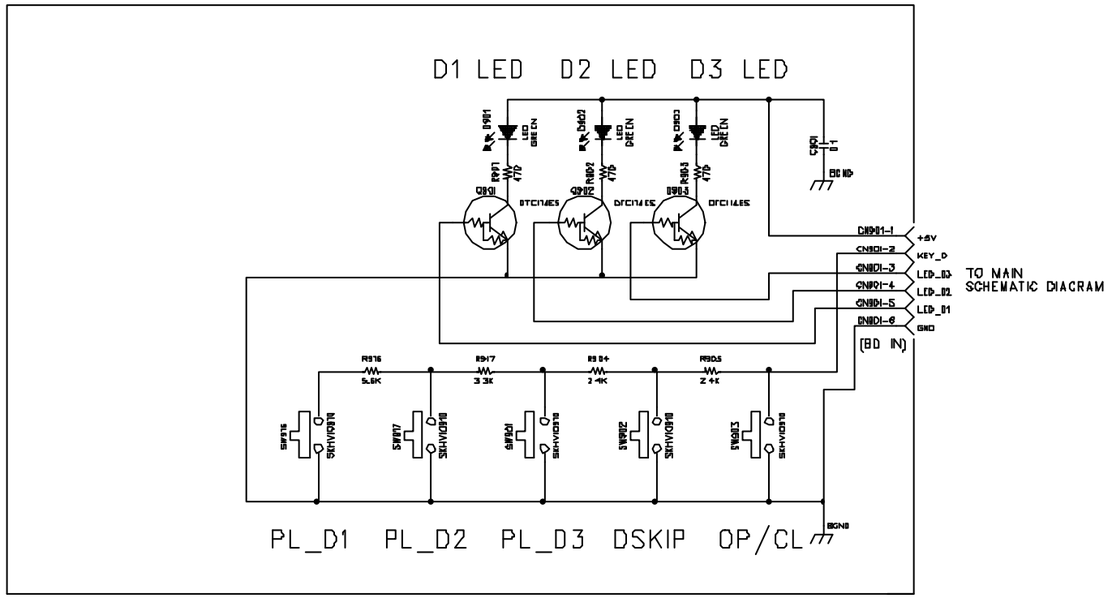
SCHEMATIC DIAGRAM
POWER AMP (MAIN)



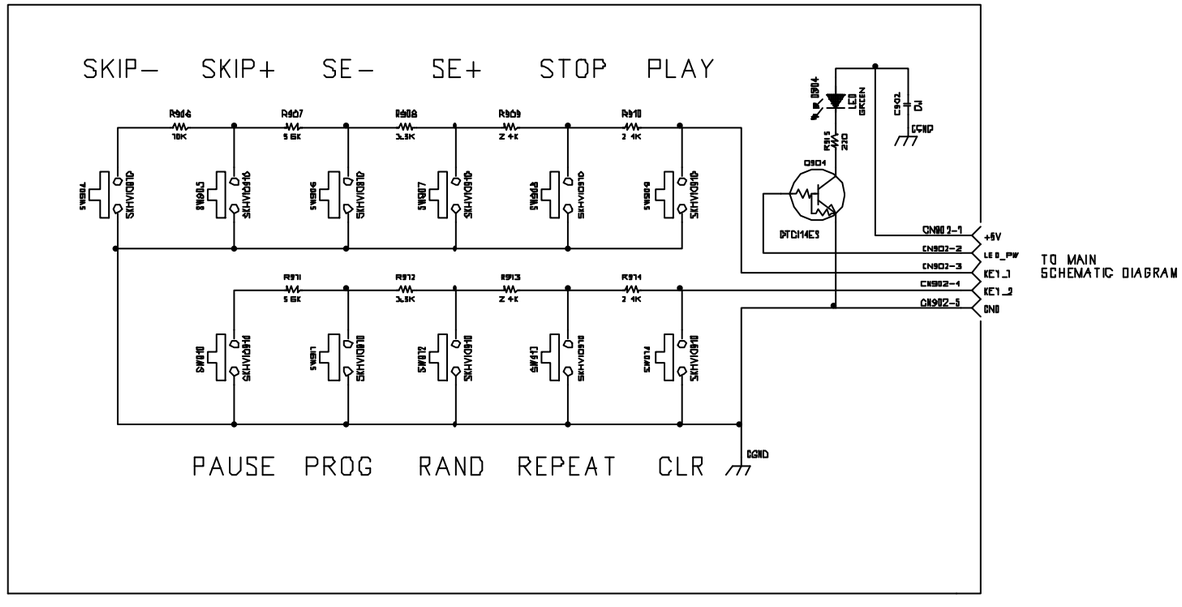
WARNING : ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

SCHEMATIC DIAGRAM
CDP (FRONT)

TOP

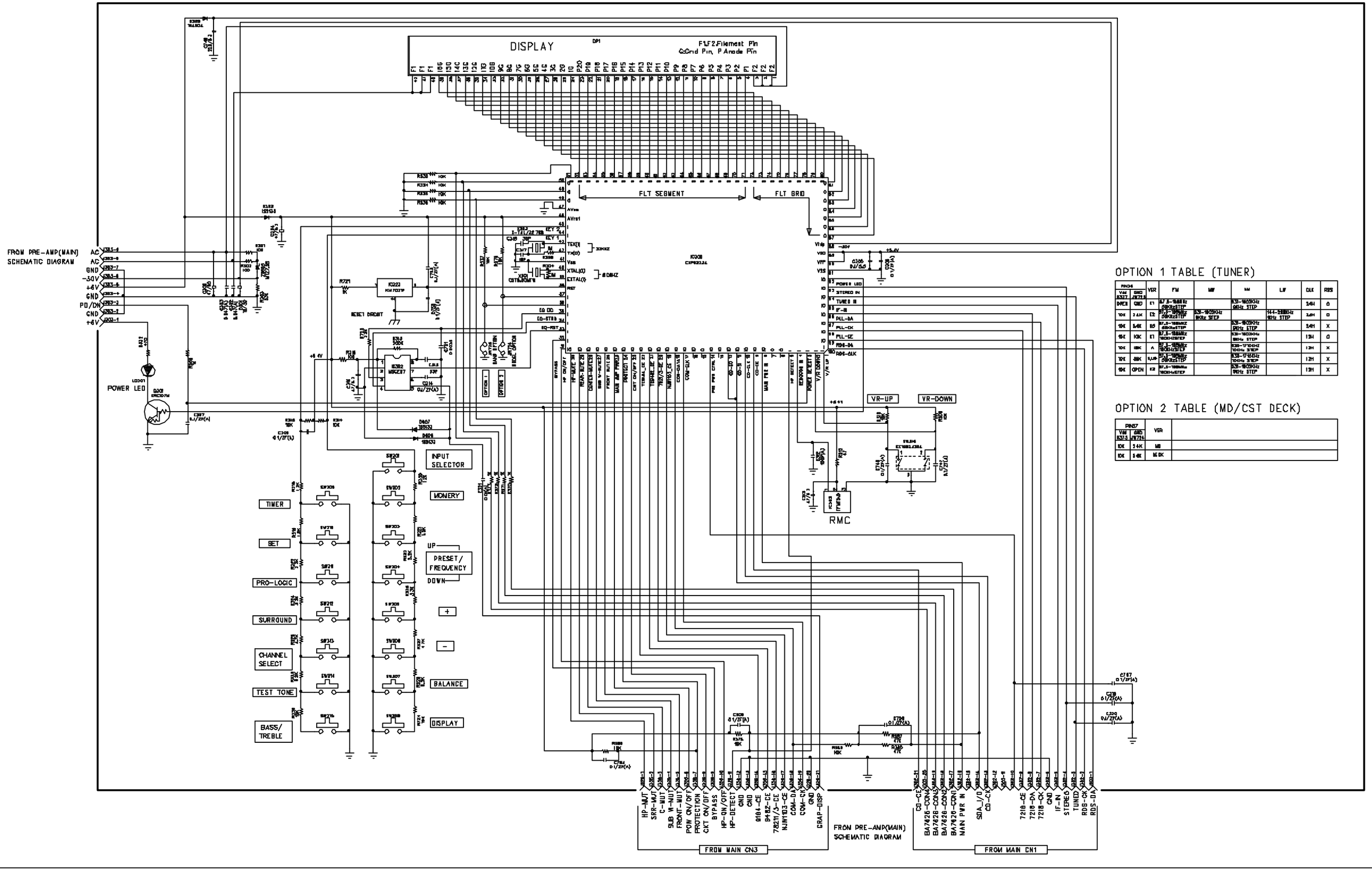


BOTTOM



*** LED : ACTIVE AT "HIGH" STATE

SCHEMATIC DIAGRAM
TUNER/FRONT (FRONT)



OPTION 1 TABLE (TUNER)

PIN34 VAR (X373)	PIN35 GND (IN774)	VER	FM	MW	SW	LW	CLK	RDS
OPEN	GND	E1	87.5~108 MHz 25KHz STEP		530~1605KHz 9KHz STEP		3.6M	O
10K	2.4K	E2	87.5~108MHz 25KHz STEP	530~1605KHz 9KHz STEP		144~288KHz 9KHz STEP	3.6M	O
15K	5.6K	E5	87.5~108MHz 25KHz STEP		530~1605KHz 9KHz STEP		3.6M	X
15K	10K	E1	87.5~108MHz 100KHz STEP		530~1600KHz 9KHz STEP		12M	O
10K	18K	A	87.5~108MHz 100KHz STEP		530~1710KHz 10KHz STEP		12M	X
10K	39K	E,US	87.5~108MHz 25KHz STEP		530~1710KHz 10KHz STEP		12M	X
15K	OPEN	E2	87.5~108MHz 100KHz STEP		530~1600KHz 9KHz STEP		12M	X

OPTION 2 TABLE (MD/CST DECK)

PIN37 VAR (X373)	PIN38 GND (IN774)	VER	
10K	2.4K	MD	
10K	18K	MDK	

SCHEMATIC DIAGRAM
TUNER/FRONT (IN/OUTPUT, VIDEO, HEADPHONE)

SYSTEM CONNECTER
FROM MDP.

SYSTEM CONNECTER
FROM PRE-AMP
SCHEMATIC DIAGRAM

SYSTEM CONNECTER
FROM CDP
SCHEMATIC DIAGRAM

TO PRE-AMP(MAIN)
SCHEMATIC DIAGRAM

TO PRE-AMP(MAIN)
SCHEMATIC DIAGRAM

TO PRE-AMP(MAIN)
SCHEMATIC DIAGRAM

TO PRE-AMP(MAIN)
SCHEMATIC DIAGRAM

AUDIO INPUT

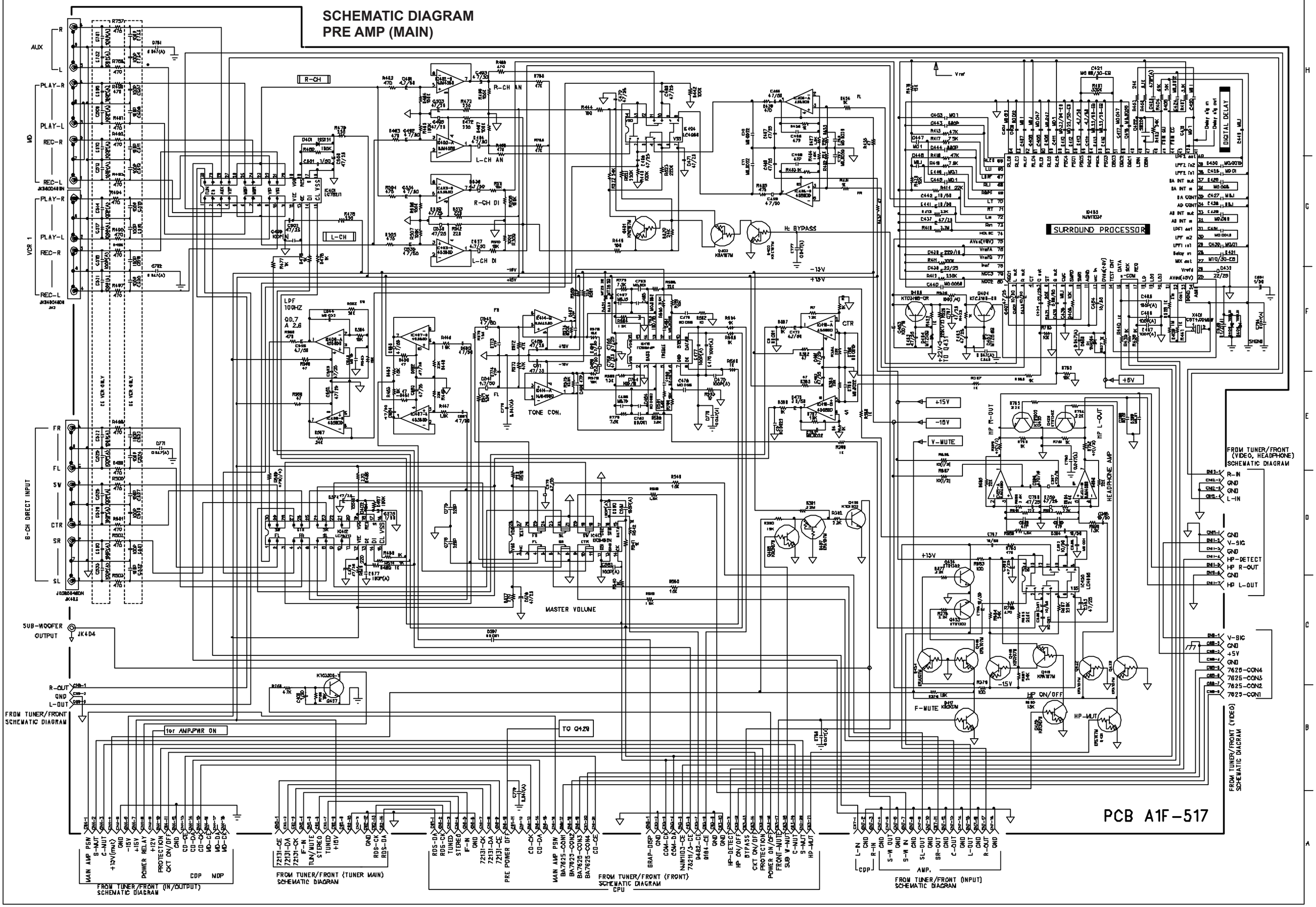
VIDEO INPUT

HEAD PHONE & VIDEO 1 INPUT BD

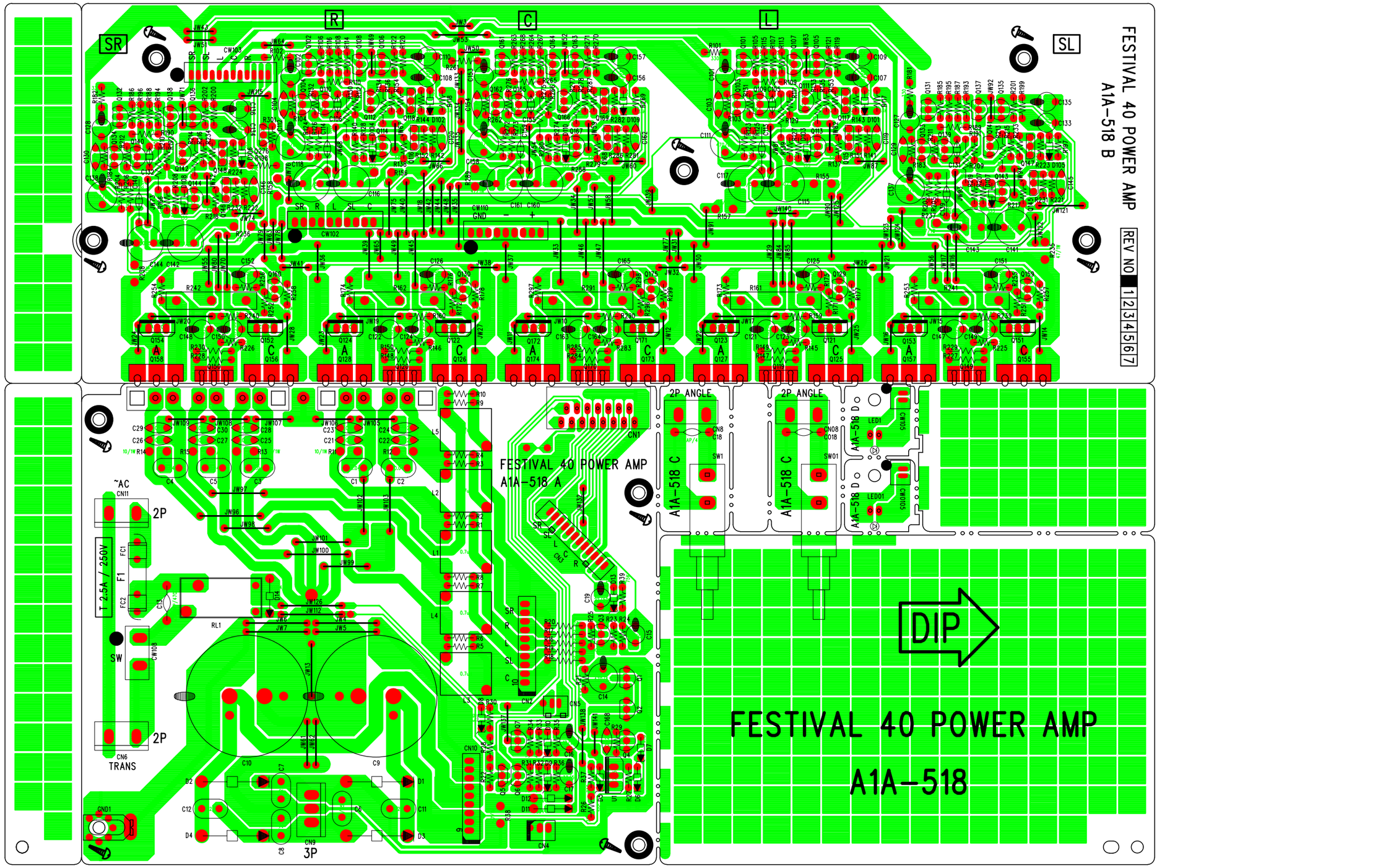
VIDEO BOARD

SYSTEM CONNECTER BD

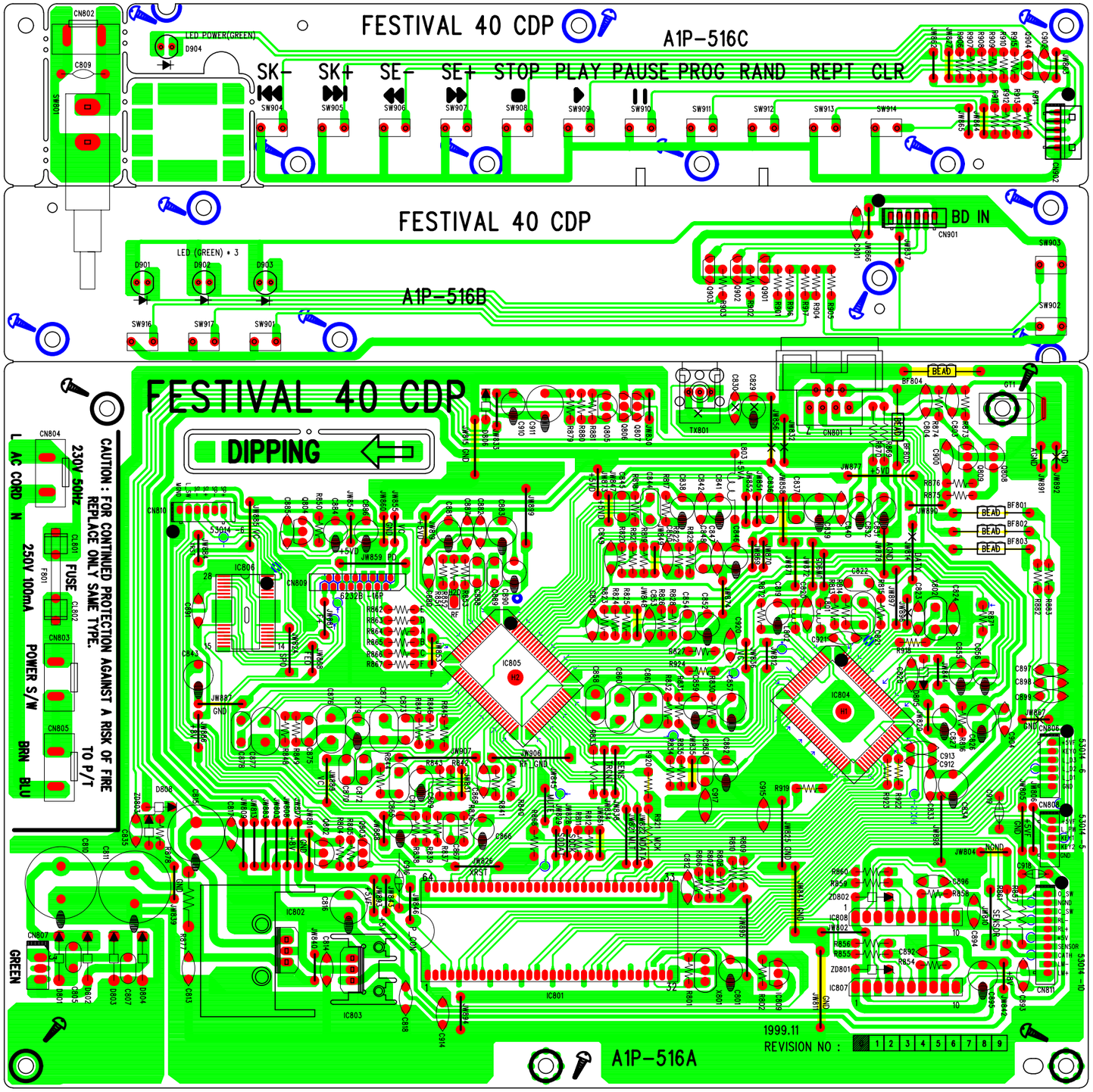
SCHEMATIC DIAGRAM
PRE AMP (MAIN)



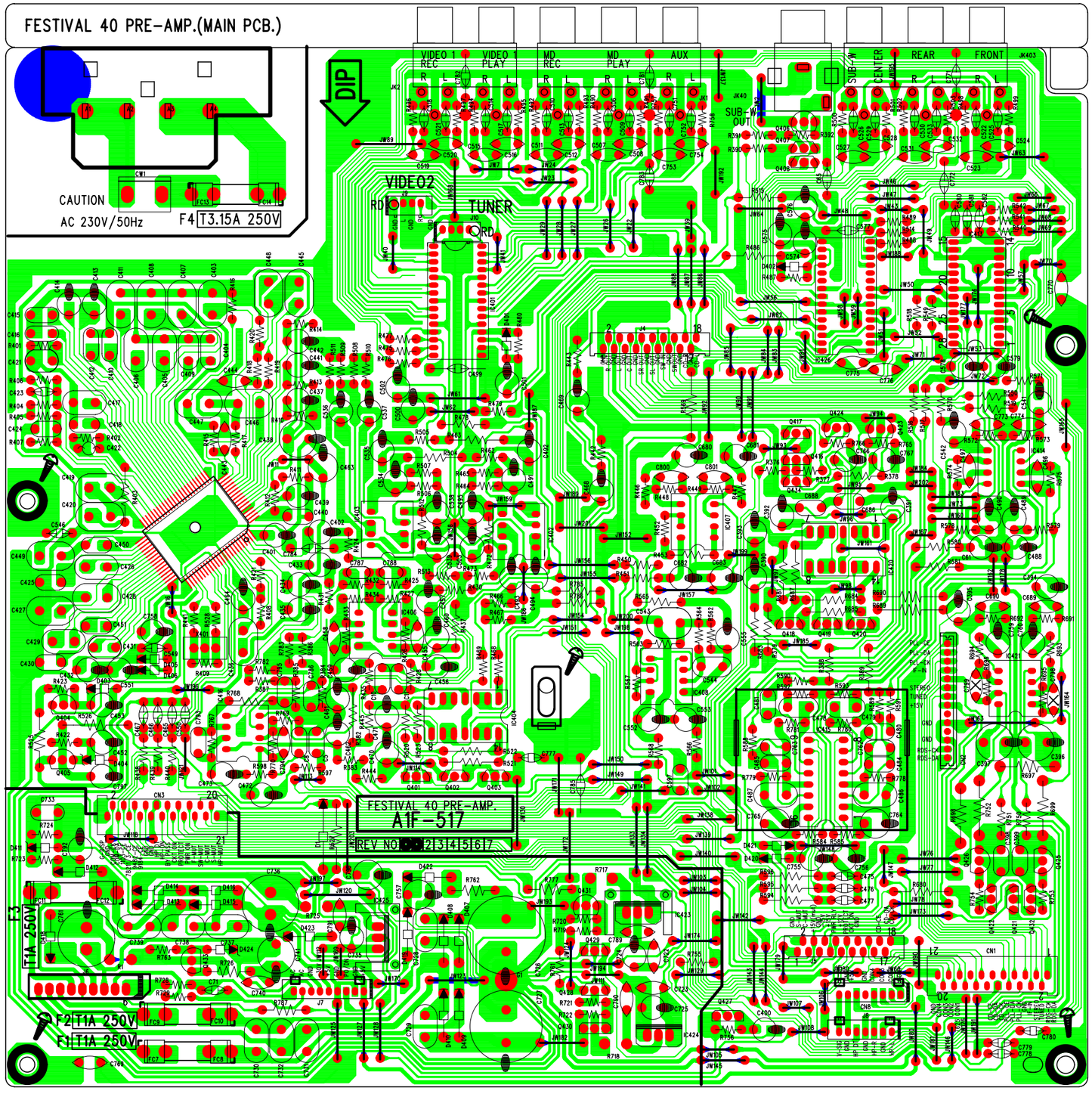
P. C. BOARD
POWER AMP



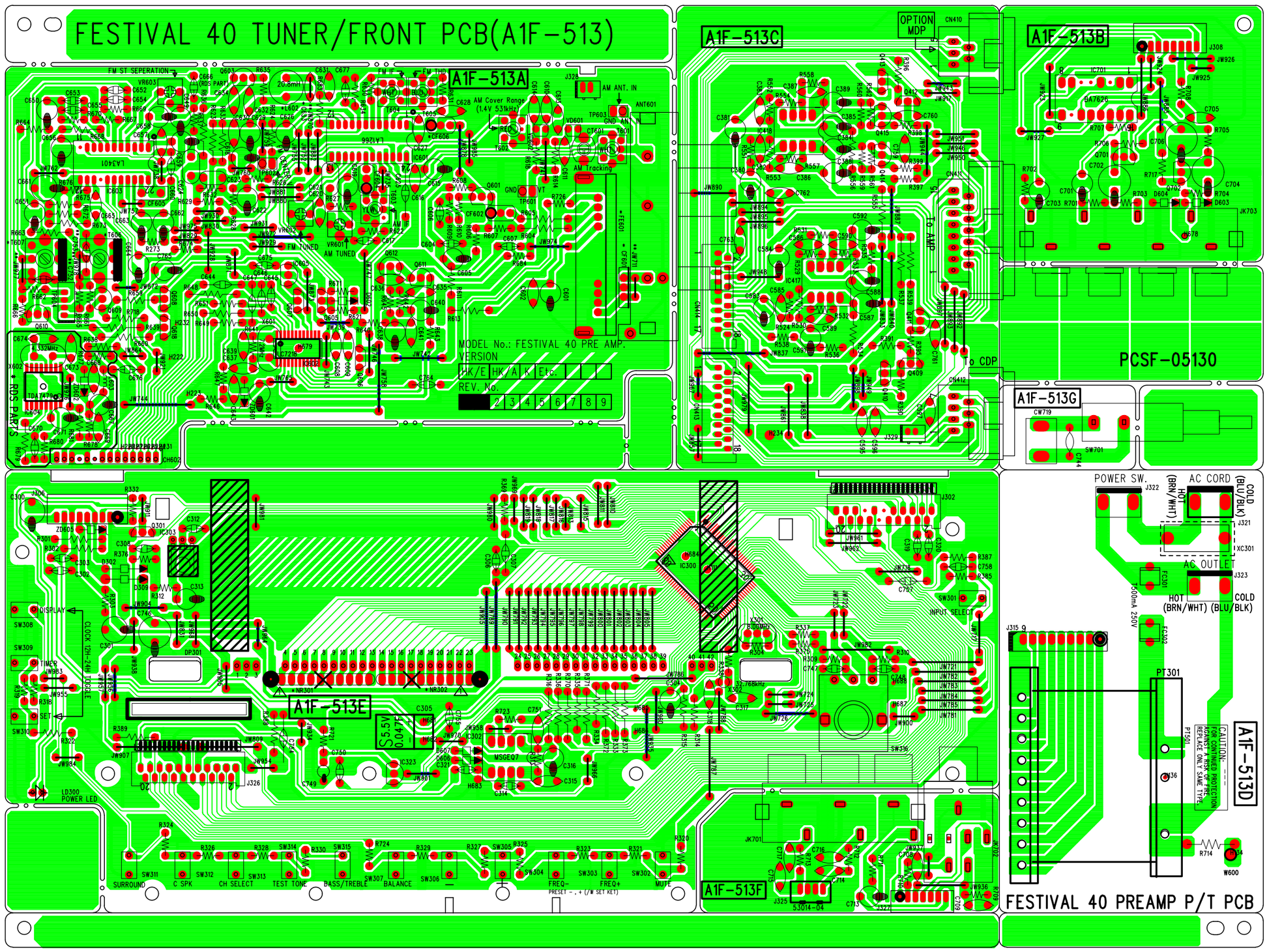
P.C.BOARD
CDP


FESTIVAL 40 CDP
A1P-516C
SK- SK+ SE- SE+ STOP PLAY PAUSE PROG RAND REPT CLR
FESTIVAL 40 CDP
A1P-516B
BD IN
FESTIVAL 40 CDP
DIPPING
CAUTION : FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY SAME TYPE.
AC CORD N
230V 50Hz
250V 100mA POWER S/W
FUSE
TO P/T
BRN BLU GREEN
A1P-516A
1999.11
REVISION NO :

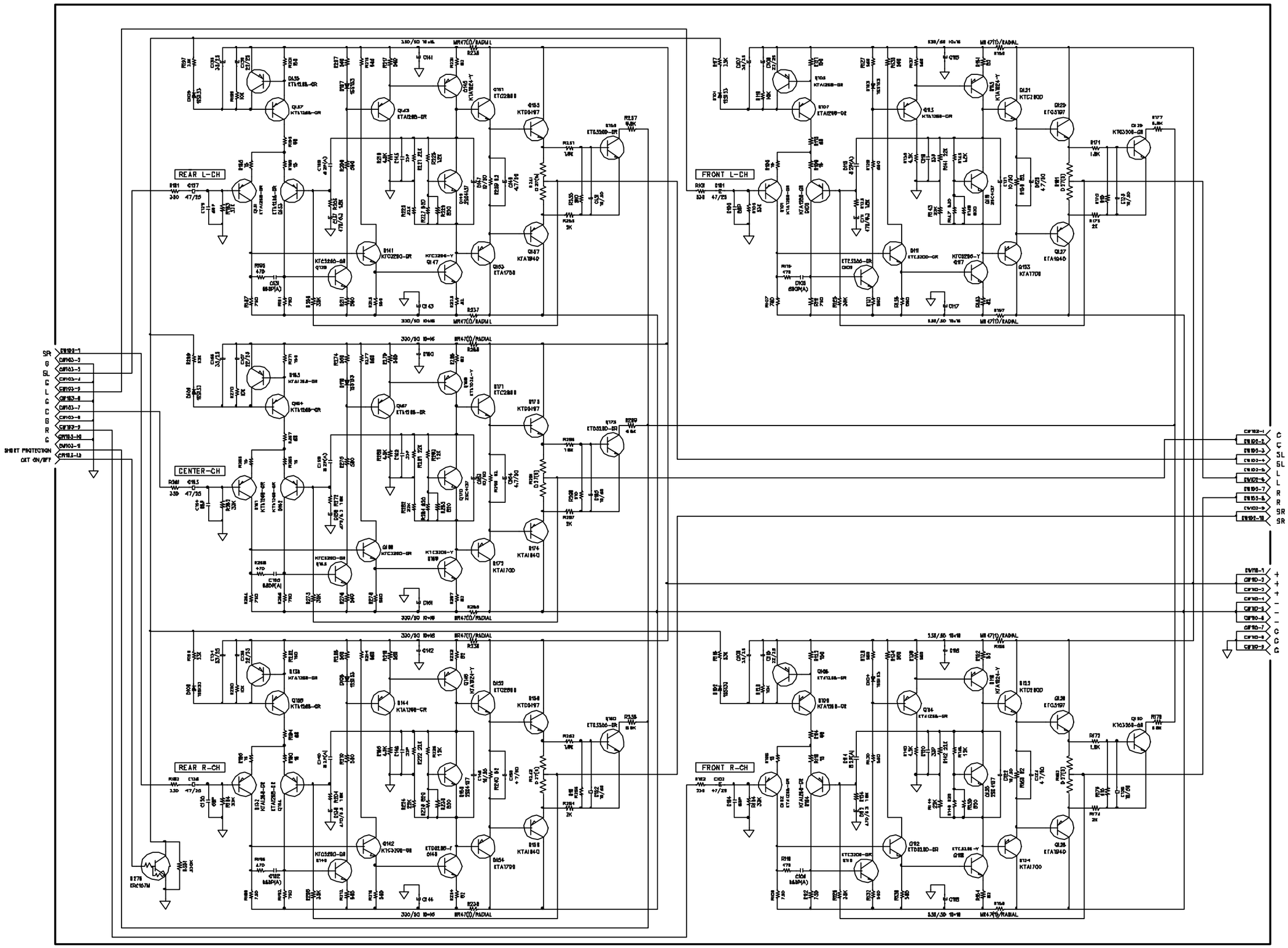
P. C. BOARD
PRE AMP



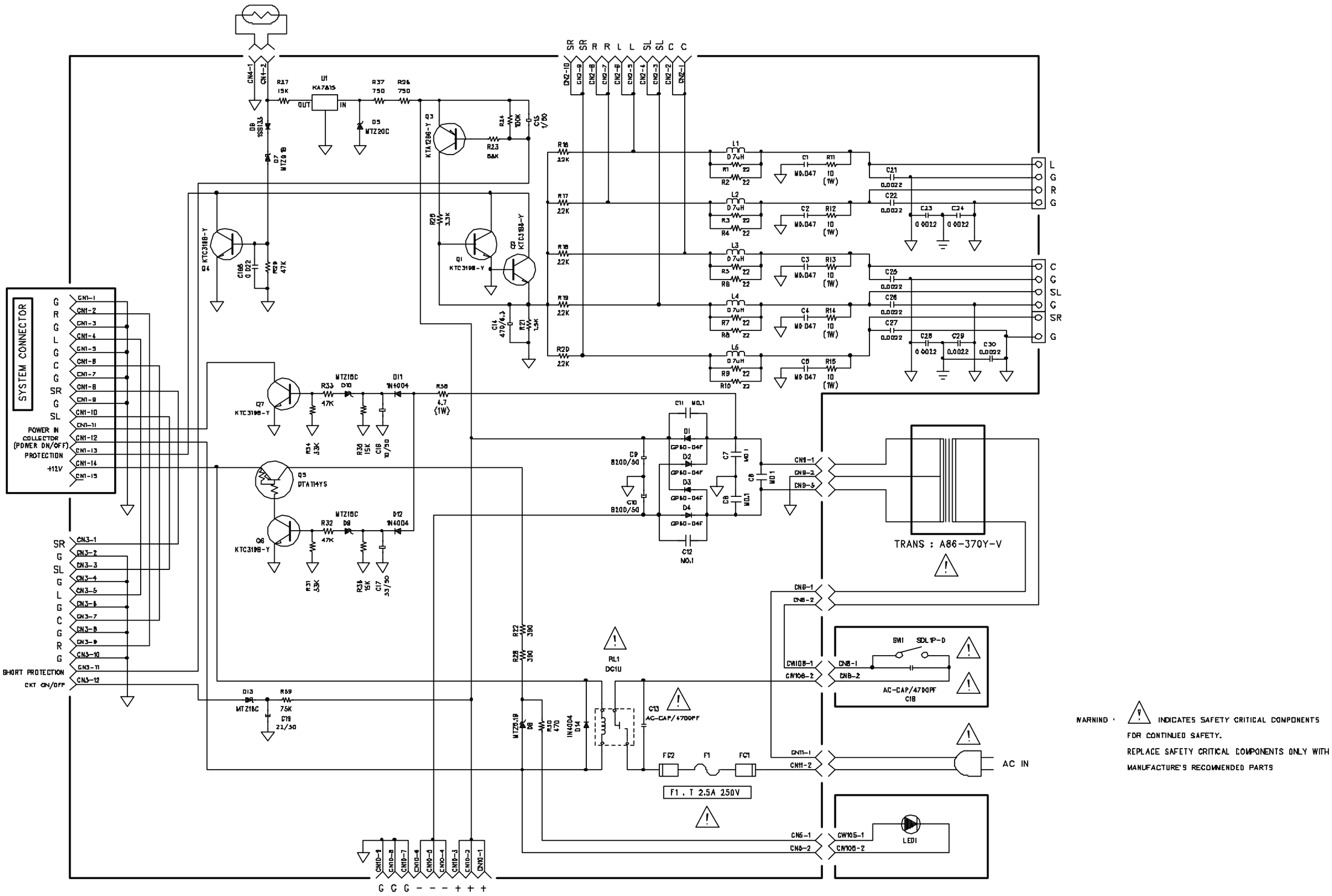
P. C. BOARD
TUNER/FRONT



SCHEMATIC DIAGRAM
POWER-AMP (AMP)



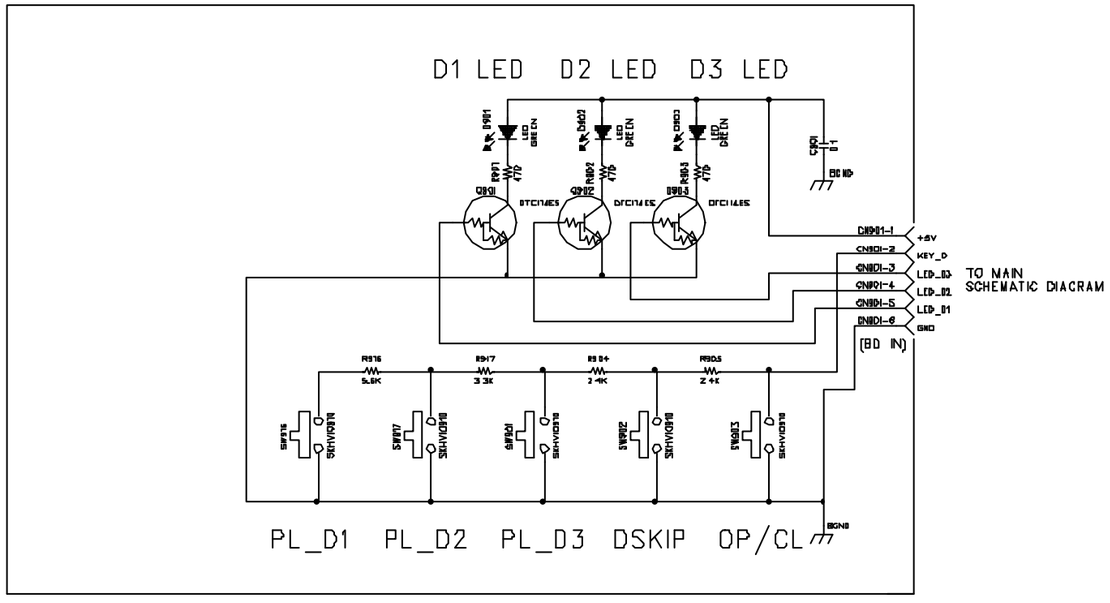
SCHEMATIC DIAGRAM
POWER AMP (MAIN)



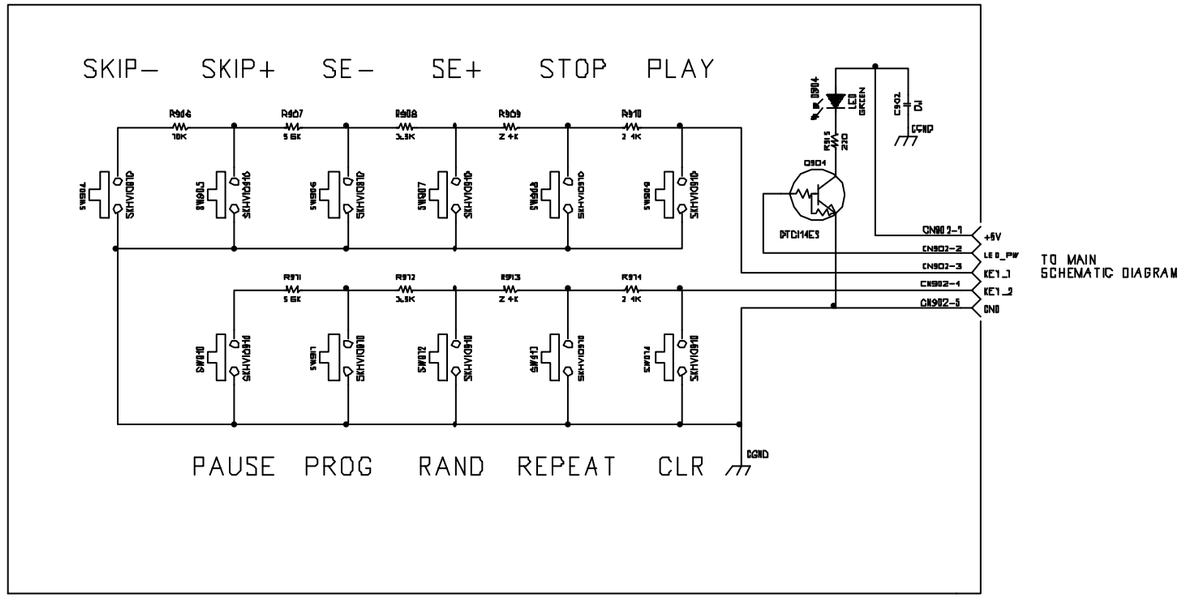
WARNING : ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

SCHEMATIC DIAGRAM
CDP (FRONT)

TOP

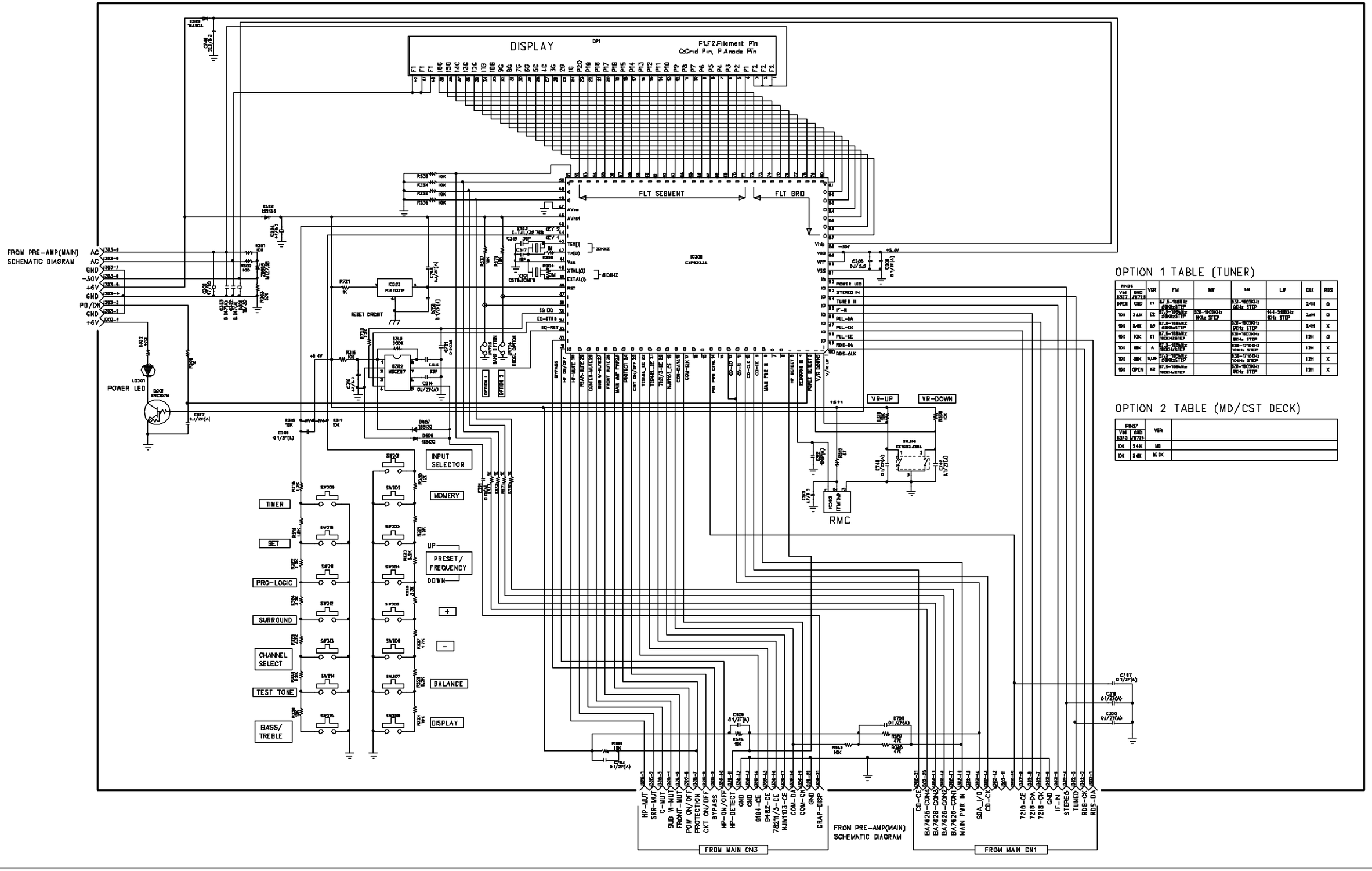


BOTTOM



*** LED : ACTIVE AT "HIGH" STATE

SCHEMATIC DIAGRAM
TUNER/FRONT (FRONT)



OPTION 1 TABLE (TUNER)

PIN34 VAR (X373)	PIN35 GND (IN774)	VER	FM	MW	SW	LW	CLK	RDS
OPEN	GND	E1	87.5~108 MHz 25KHz STEP		530~1605KHz 9KHz STEP		3.6M	O
10K	2.4K	E2	87.5~108MHz 25KHz STEP	530~1605KHz 9KHz STEP		144~288KHz 9KHz STEP	3.6M	O
15K	5.6K	E5	87.5~108MHz 25KHz STEP		530~1605KHz 9KHz STEP		3.6M	X
15K	10K	E1	87.5~108MHz 100KHz STEP		530~1600KHz 9KHz STEP		12M	O
10K	18K	A	87.5~108MHz 100KHz STEP		530~1710KHz 10KHz STEP		12M	X
10K	39K	E,US	87.5~108MHz 25KHz STEP		530~1710KHz 10KHz STEP		12M	X
15K	OPEN	E2	87.5~108MHz 100KHz STEP		530~1600KHz 9KHz STEP		12M	X

OPTION 2 TABLE (MD/CST DECK)

PIN37 VAR (X373)	PIN38 GND (IN774)	VER	
10K	2.4K	MD	
10K	18K	MDK	

SCHEMATIC DIAGRAM
TUNER/FRONT (IN/OUTPUT, VIDEO, HEADPHONE)

SYSTEM CONNECTER
FROM MDP.

SYSTEM CONNECTER
FROM PRE-AMP
SCHEMATIC DIAGRAM

SYSTEM CONNECTER
FROM CDP
SCHEMATIC DIAGRAM

TO PRE-AMP(MAIN)
SCHEMATIC DIAGRAM

TO PRE-AMP(MAIN)
SCHEMATIC DIAGRAM

TO PRE-AMP(MAIN)
SCHEMATIC DIAGRAM

TO PRE-AMP(MAIN)
SCHEMATIC DIAGRAM

AUDIO INPUT

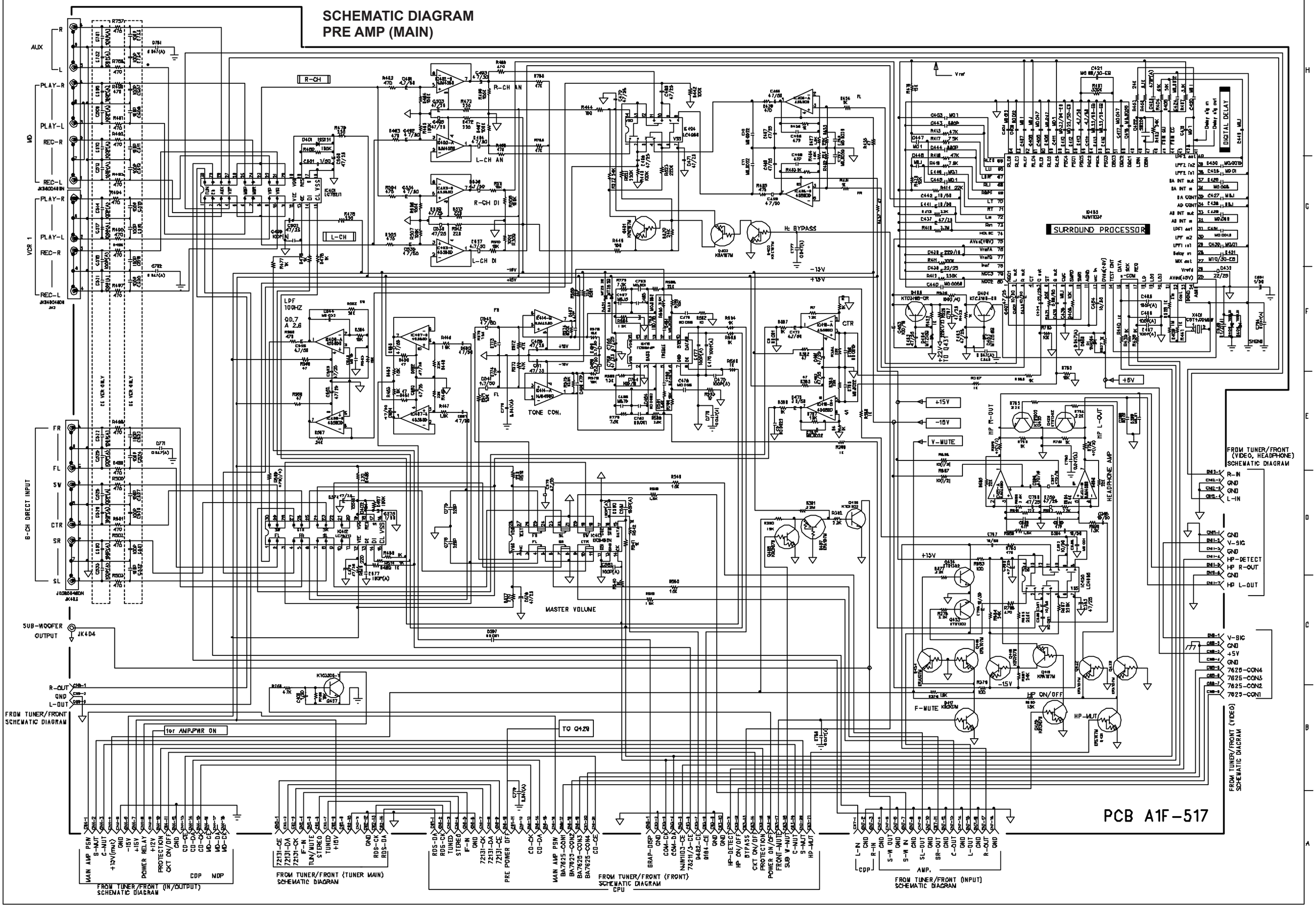
VIDEO INPUT

HEAD PHONE & VIDEO 1 INPUT BD

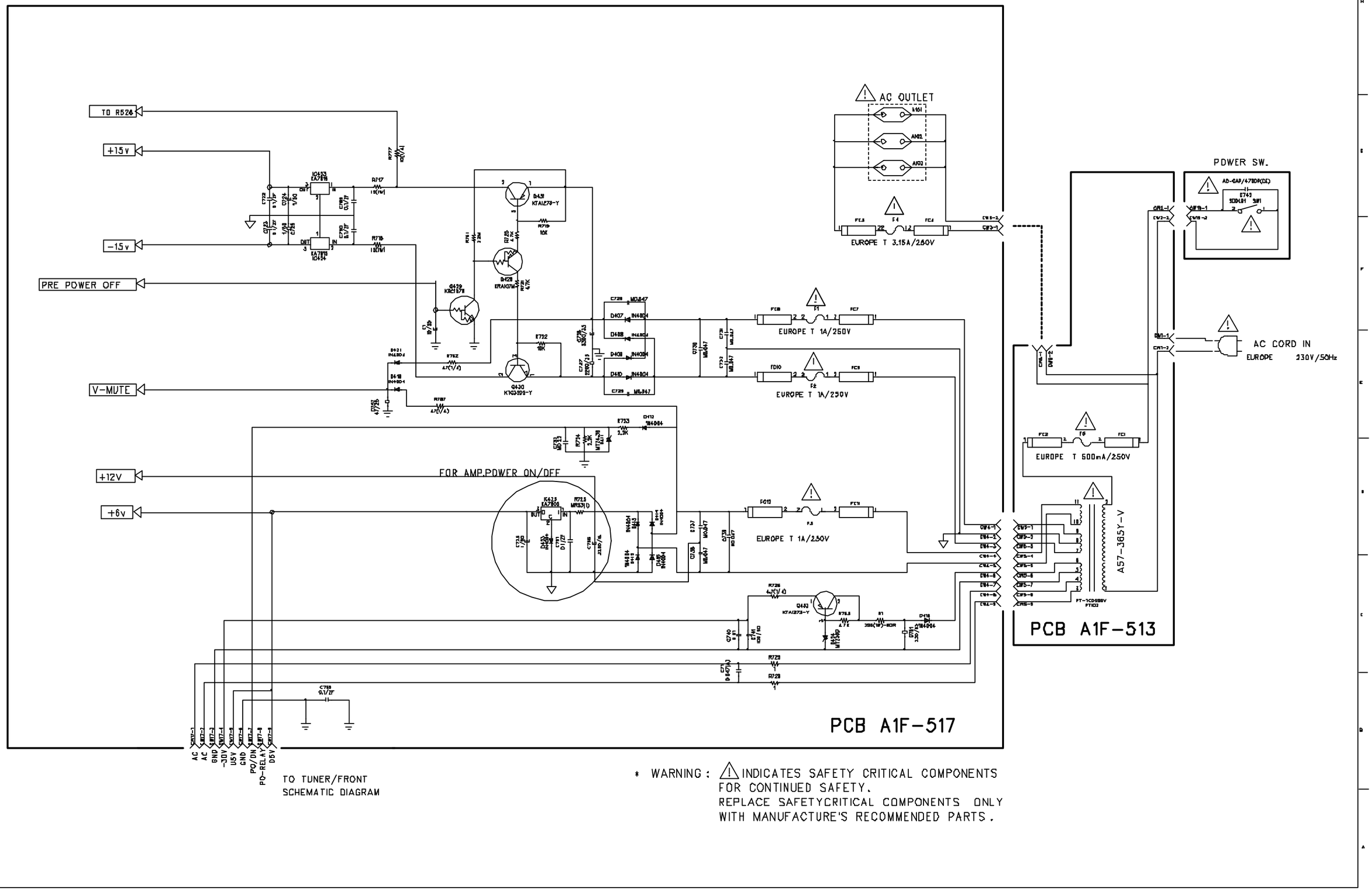
VIDEO BOARD

SYSTEM CONNECTER BD

SCHEMATIC DIAGRAM
PRE AMP (MAIN)

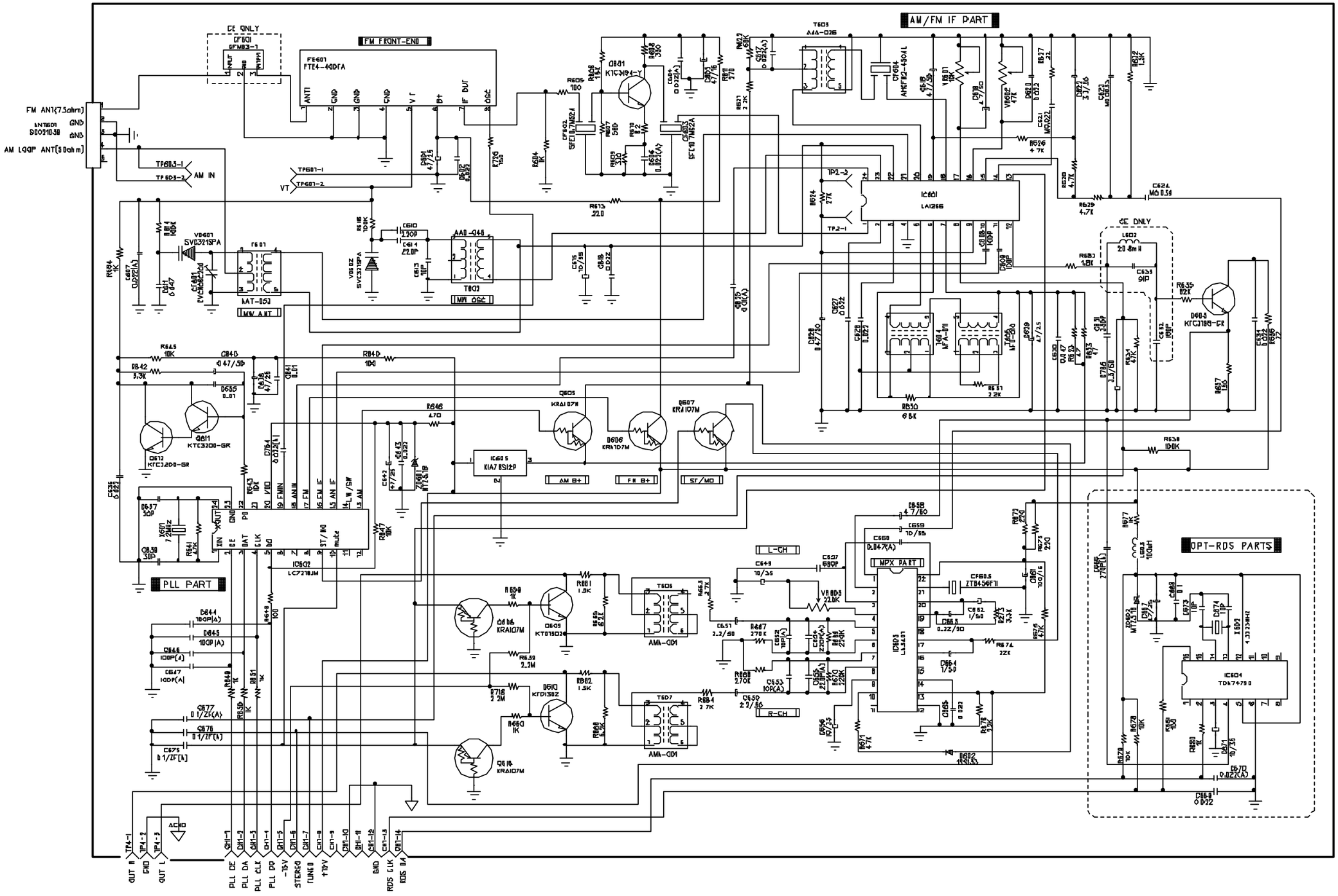


SCHEMATIC DIAGRAM
PRE AMP (POWER SUPPLY)



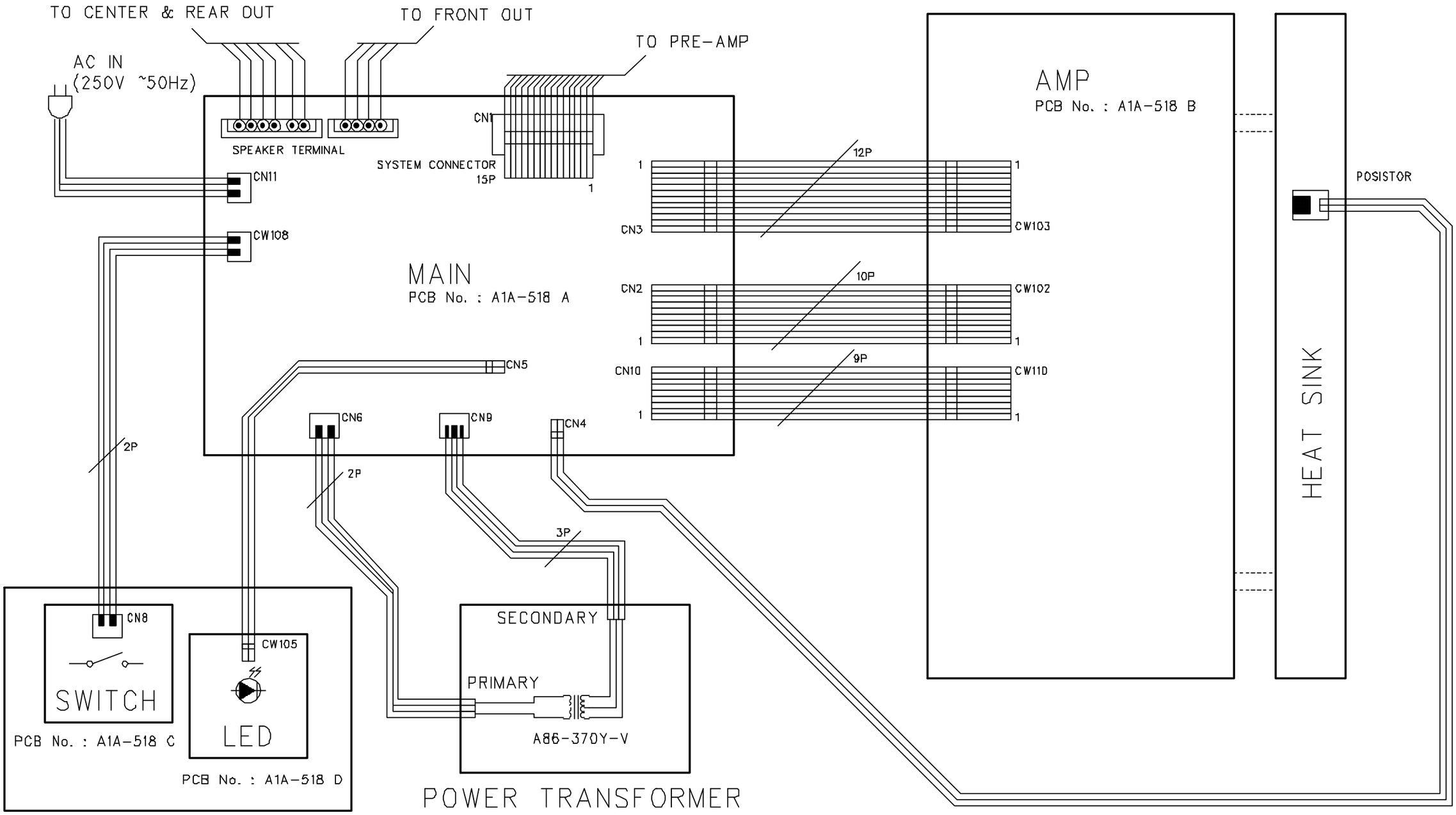
* WARNING : ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETYCRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

SCHEMATIC DIAGRAM
TUNER/FRONT (TUNER MAIN)

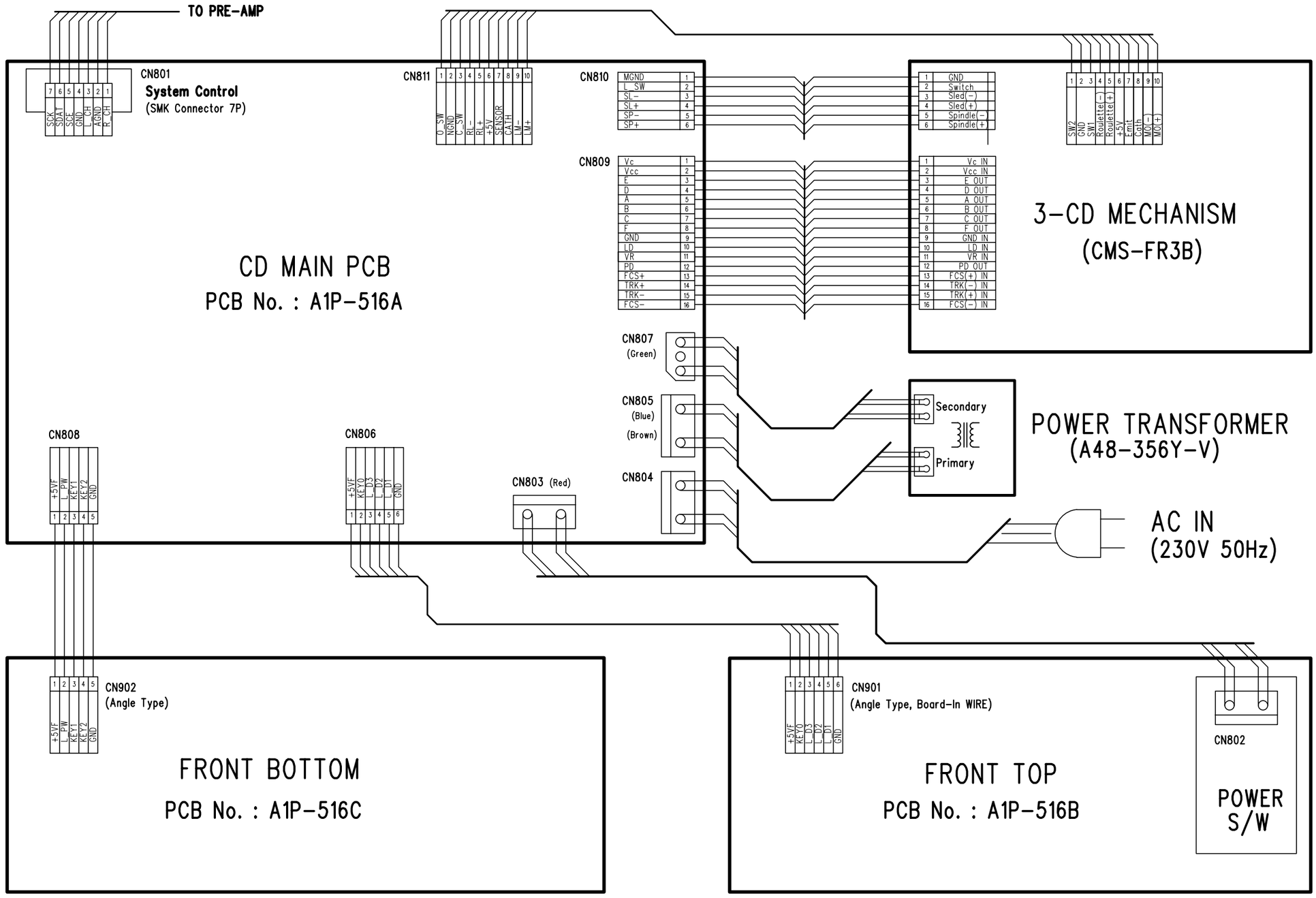


OPTION TABLE		
LOC NO	USA	Europe
ANT601	SCD2103B3N	SCD21 03-82.N
CF601	X	D
FE601		FTE4-40DFA
R602	X	D
R603	X	D
R624	27K	47K
L602	X	D
C835	X	D
C832	X	D
R669	120K	220K
R670	120K	220K
C654	560P(A)	220P(A)
C655	560P(A)	220P(A)
C832	68P(A)	100P(A)
C653	68P(A)	100P(A)
R667	180K	270 K
R668	180K	270 K
R685	X	150
R637	620	390
CF603	SFE10.7MS2A	SFE10.7MJA
R05	X	D

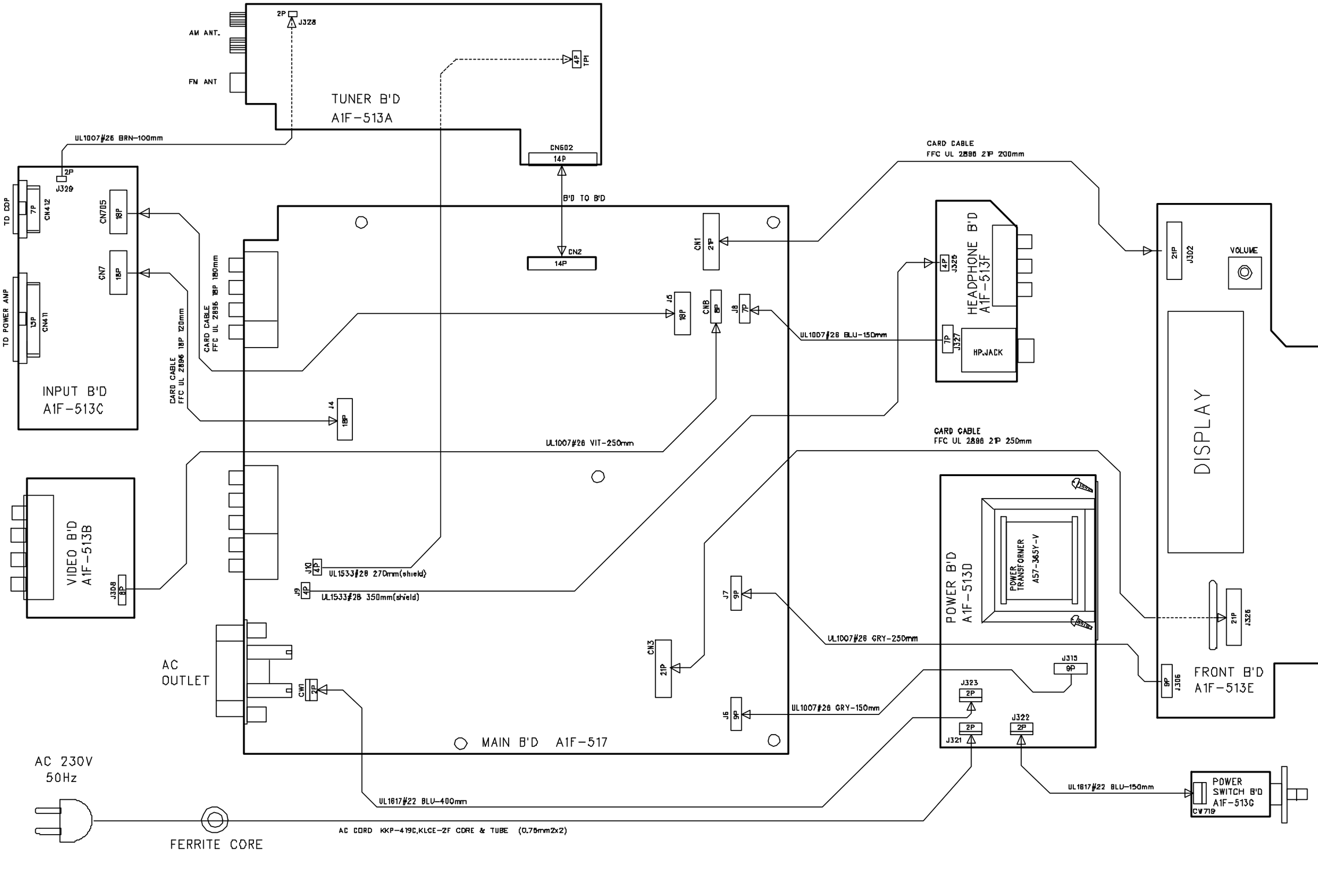
WIRING DIAGRAM
POWER AMP



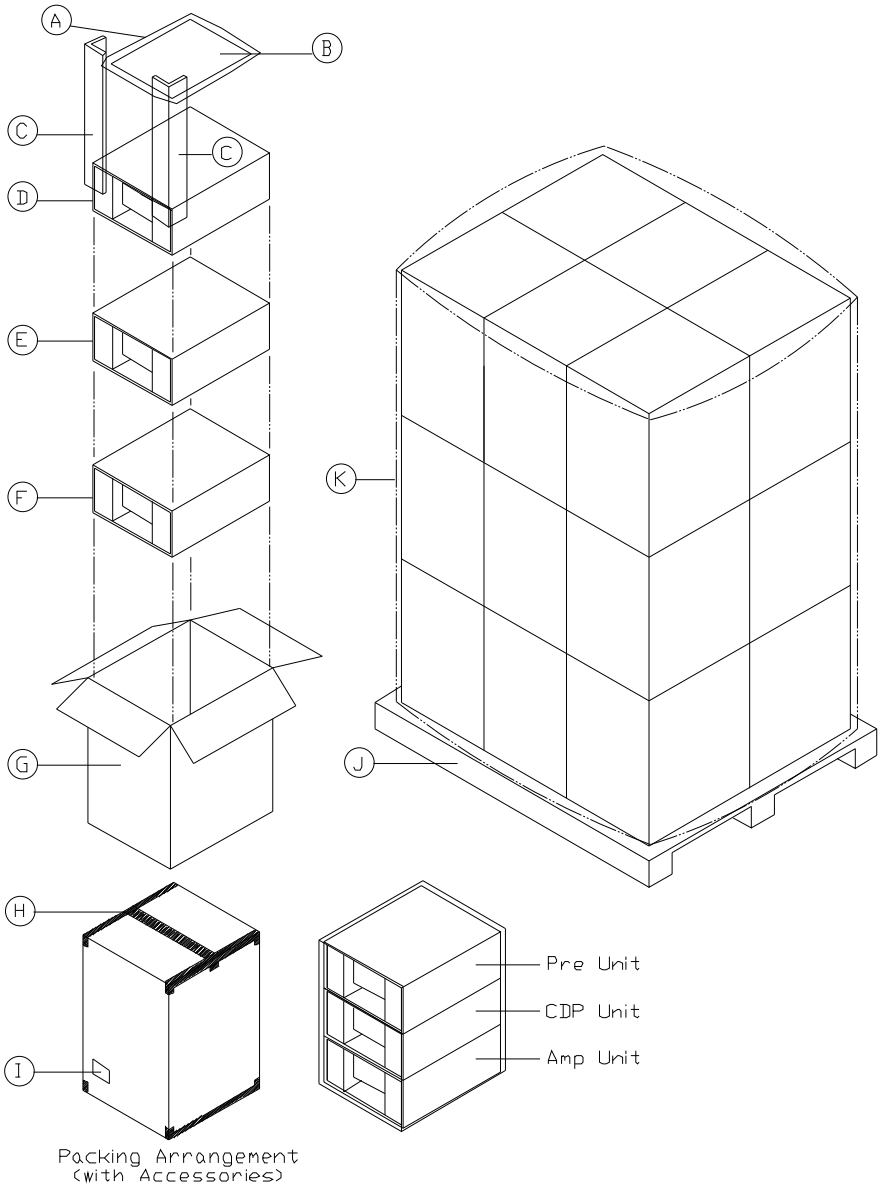
WIRING DIAGRAM
CDP



WIRING DIAGRAM
PRE/TUNER

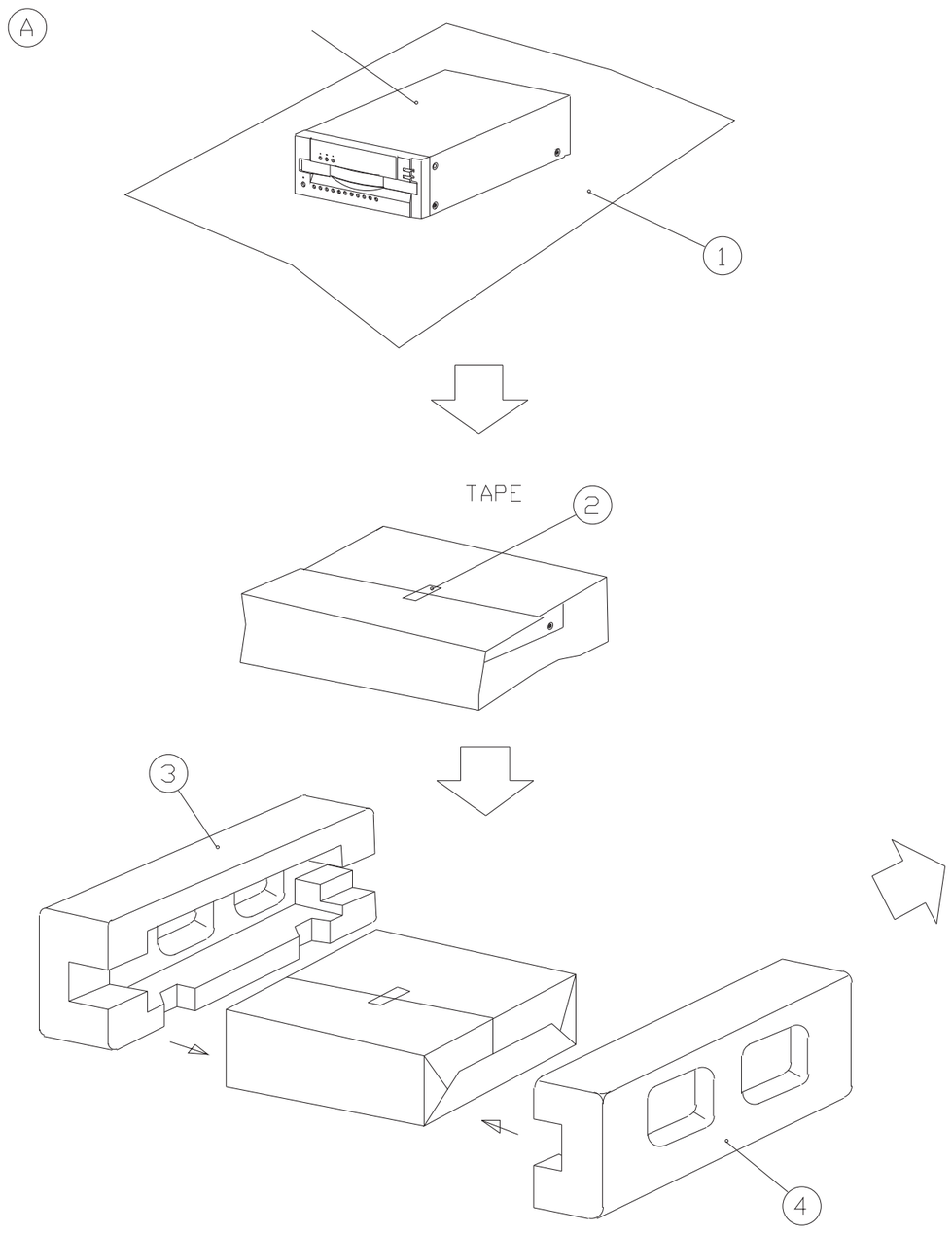


Carton Packing



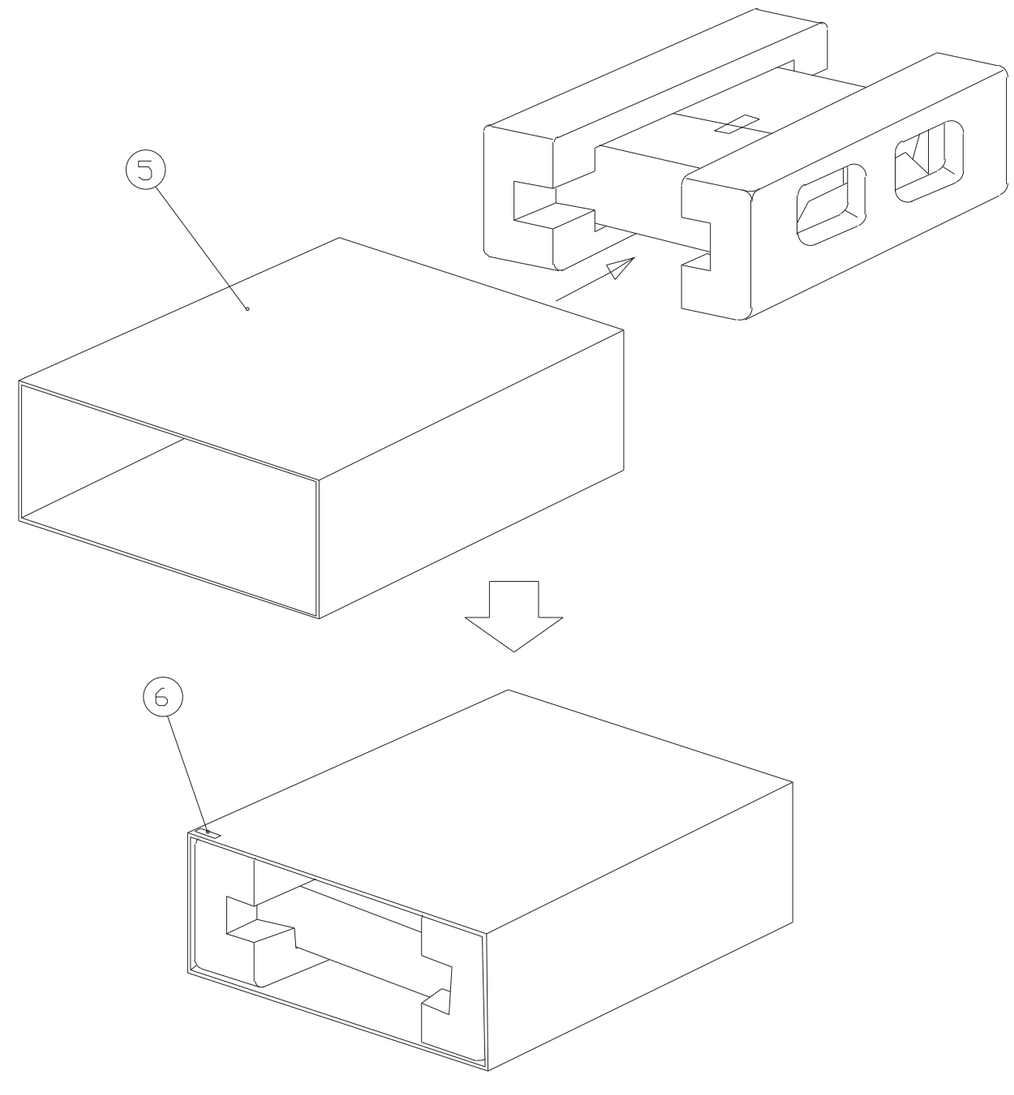
Packing Arrangement
(with Accessories)

PACKING MATERIAL



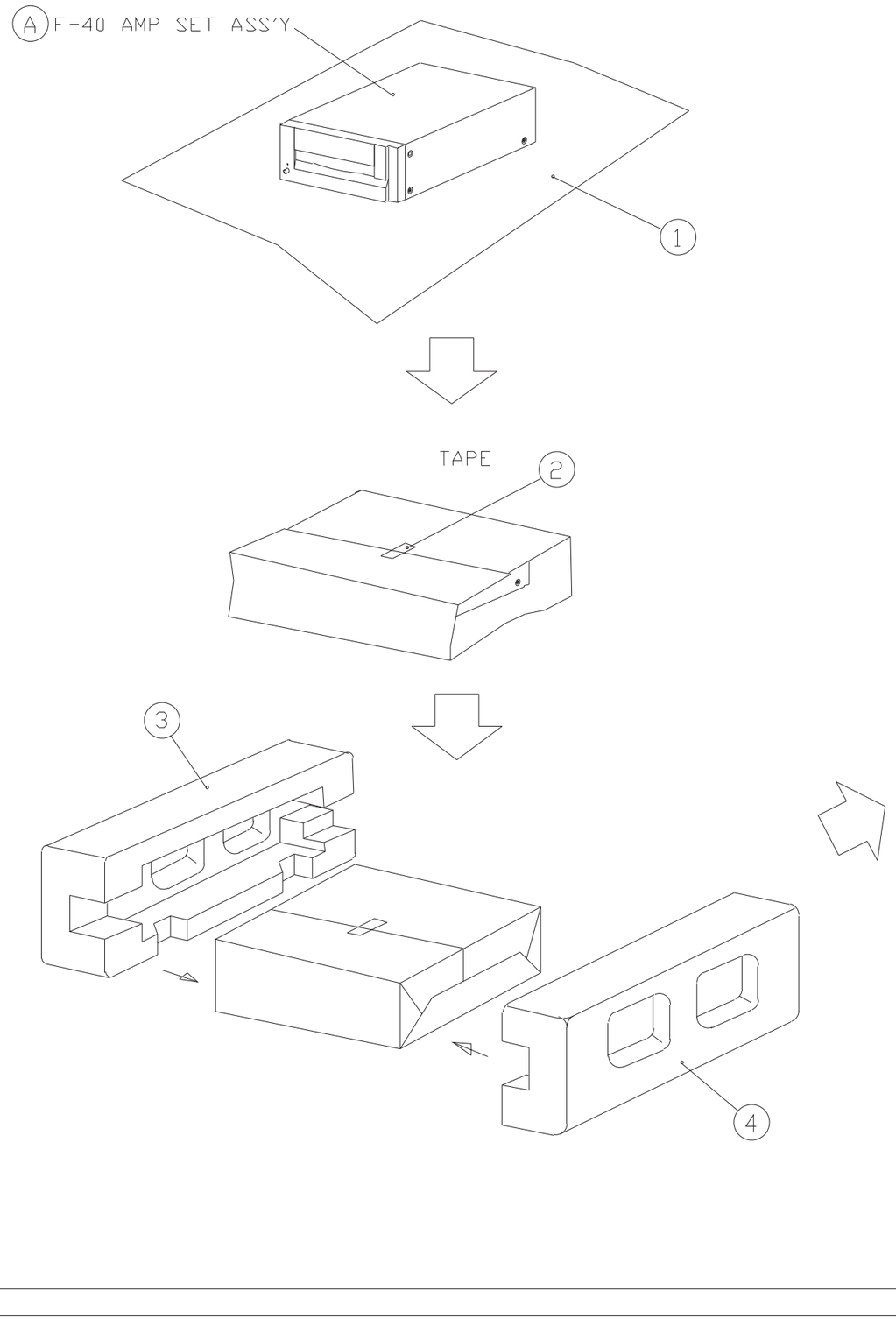
PACKING MATERIAL

NO	PARTS NAME	PART NO	Q'TY	REMARK
A	CDP SET ASS'Y	***	1	***
1	TOILON-SHEET	YVAP-13321-ZZ4	1	PE
2	TAPE	***	*	***
3	CUSHION-L	YSAP-12120-002	1	EPS
4	CUSHION-R	YSAP-12130-002	1	EPS
5	SLEEVE-PACKING	YGAP-14820-ZZ4	1	SW-1
6	BAR CODE- LABEL	****-*****-***	1	PAPER



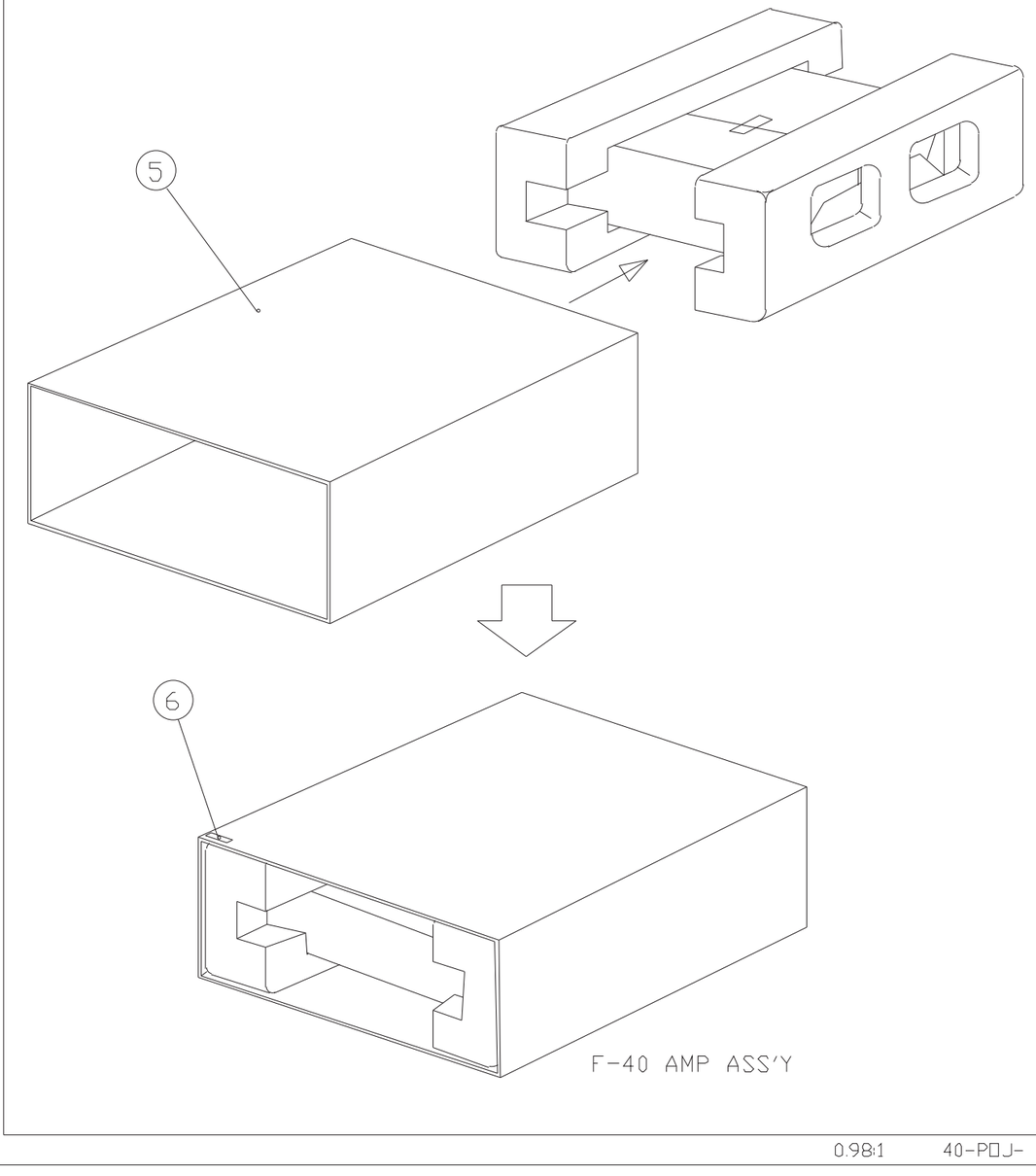
0.98:1 PDJ-53

PACKING MATERIAL



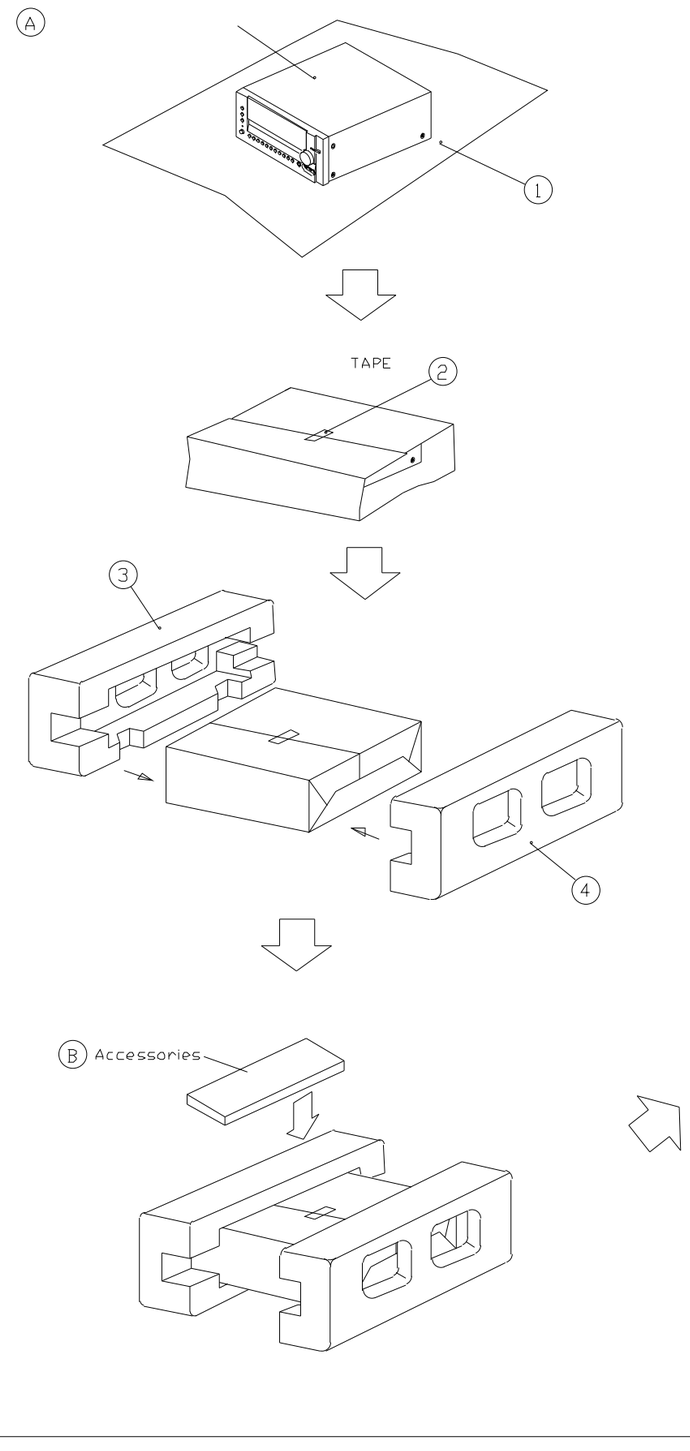
PACKING MATERIAL

NO	PARTS NAME	PART NO	Q'TY	REMARK
A	CDP SET ASS'Y	***	1	***
1	TOILON-SHEET	YVAP-13321-ZZ4	1	PE
2	TAPE	***	*	***
3	CUSHION-L	YSAP-12120-002	1	EPS
4	CUSHION-R	YSAP-12130-002	1	EPS
5	SLEEVE-PACKING	YGAP-14820-ZZ4	1	SW-1
6	BAR CODE- LABEL	***	1	PAPER



0.98:1 40-PJ-

PACKING MATERIAL



PACKING MATERIAL

NO	PARTS NAME	PART NO	Q'TY	REMARK
A	PRE SET ASS'Y	****-*****-***	1	***
1	TOILON-SHEET	YVAP-13321-ZZ4	1	PE
2	TAPE	***	*	***
3	CUSHION-L	YSAP-12120-002	1	EPS
4	CUSHION-R	YSAP-12130-002	1	EPS
5	SLEEVE-PACKING	YGAP-14820-ZZ4	1	SW-1
6	OPP-TAPE	***	*	***
7	BAR CODE- LABEL	****-*****-***	1	PAPER
B	BOX-ACCESSORIES	YGAP-14840-ZZ4	1	
	ANTENNA-LOOP	ANTL-00060-E50	1	
	ANTENNA-T TYPE	ANTT-00090-075	1	
	REMOTE CONTROLLER	****-*****-***	1	
	BATTERY MANGANESE	BAMN-00020-150	2	
	CABLE-SYSTEM	****-*****-***	1	
	CABLE-SYSTEM	****-*****-***	1